Structural Engineers – Since 1957

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

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

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

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: February 19, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/13/2022

Joe Frogge
Digitally signed by Joe Frogge
DN: CN=Joe Frogge, OU=Development, OU=LS Users, DC=COLS, DC=LOC
Date: 2022.09.13 15:57:23-05'00'

TRANSMITTING:

DESCRIPTION	REMARKS
Group 1 Truss Shop Drawings	APPROVED

SHOP DRAWING STAMP COMMENTARY

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

DEFINITIONS

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

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

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

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

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

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

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Building 1

Brinkmann CONSTRUCTORS

Employee-Owned

TRANSMITTAL

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

Date: 2/16/2022

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

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

We are sending:

- [x] Product Data
- [ ] Reports
- [ ] Shop Drawings
- [x] Samples
- [ ] Other

Transmitted as checked:

- [x] For Approval
- [ ] For Your Use
- [ ] As Requested
- [ ] Approved as Submitted
- [ ] Other

Transmitted via:

- [x] Via email (PDF)
- [x] Copies to follow (USPS/Ground)

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

Brinkmann Approval

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

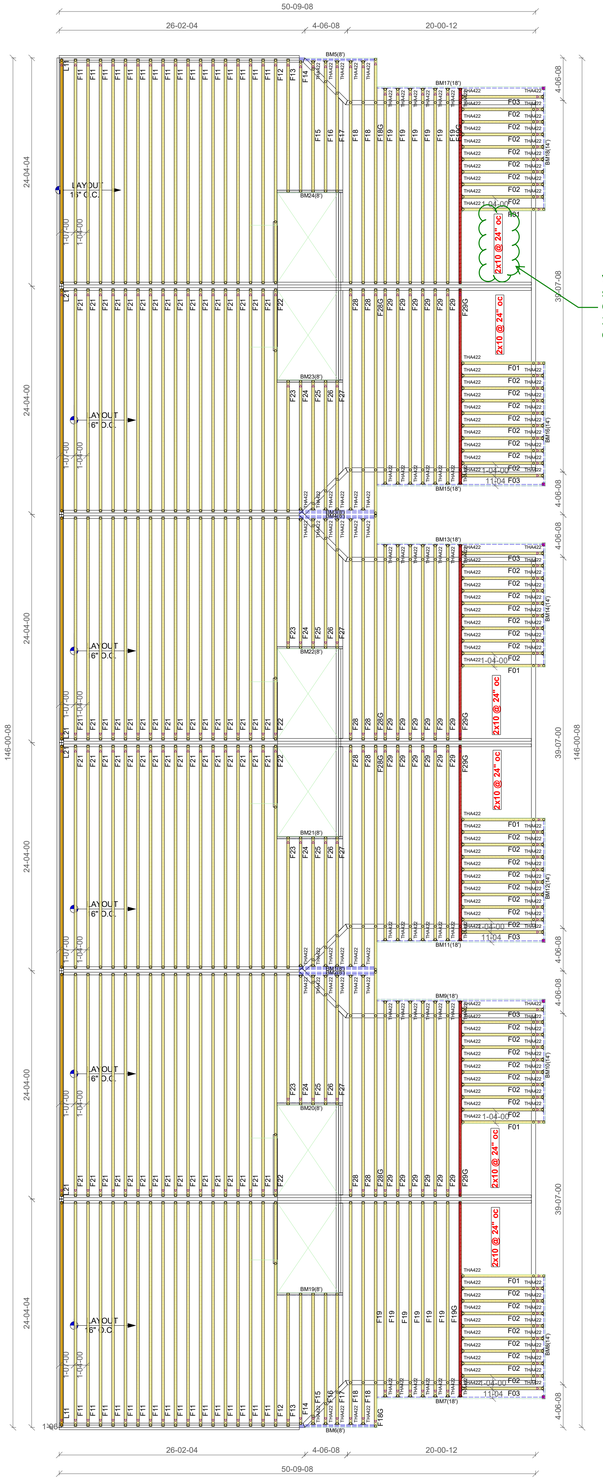
By: Kolten Ragan **Date:** 2/16/2022

Brinkmann Comments in Green

Building 1

Group 1 2nd Floor Plan

6- Plex Building



9-1-2 WALL HEIGHTS U.N.O.

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

Truss Connector Total List		
Manuf	Product	Qty
	THA422	190

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

24"oc ok
-bdc

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

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

Thank you for giving us the opportunity to serve you.
We appreciate your business and the confidence you have placed in us.
Please call us if we can be of further assistance.

Model Name:	TBD	Mo	64063	Lot	
Address:	Lee Summit,		Lot / Blk:		
Subdivision:					

Job Name:	Brinkmann Constructors				
Structure Ref #:	G01F				
Designer:	Juan Quiroz				
OT Ref #:	B212230	Status:	Quote	Date:	2/9/2022

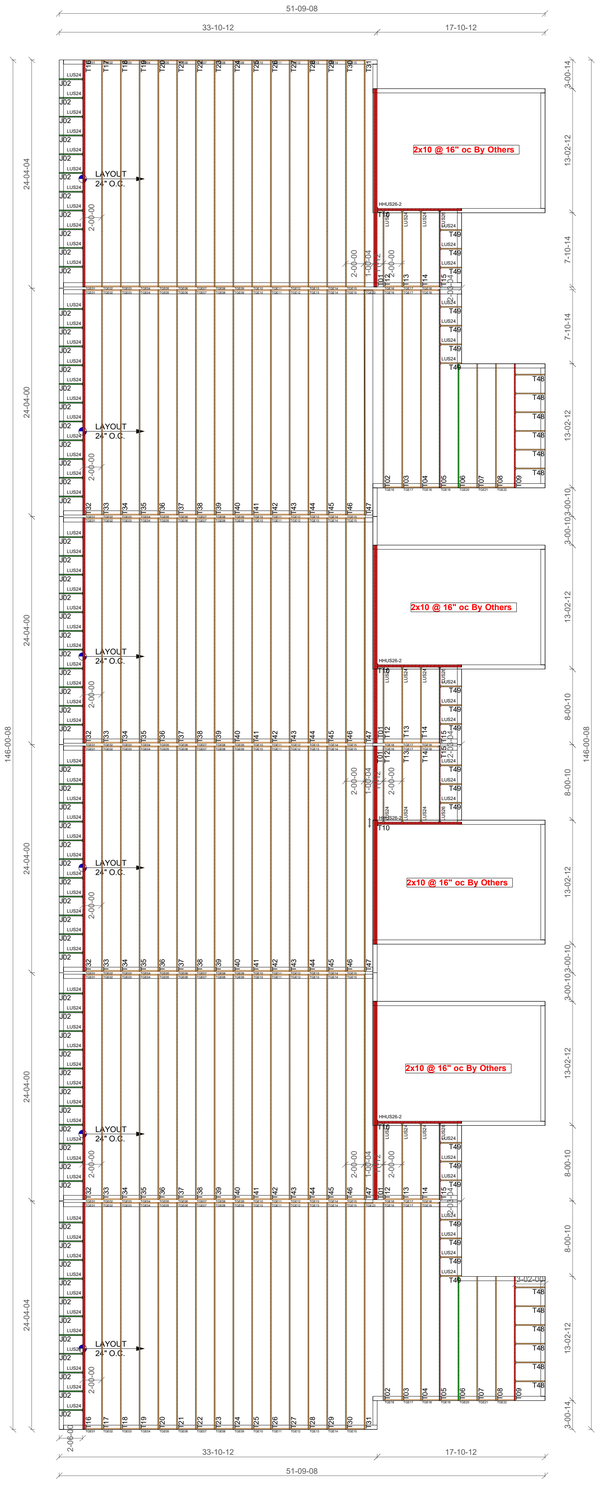
Mill Creek Truss
Building Dreams for Over 30 Years and Counting
3363 S Halstead Rd
Halstead, KS 67056
Office: 316-830-6108

FLOOR TRUSS LAYOUT (NTS)

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

Group 1 Roof Plan

6- Plex Building



9-1-2 WALL HEIGHTS U.N.O.

Truss Connector Total List		
Manuf	Product	Qty
	HHUS26-2	4
	LUS24	98
	LUS26	4

Roof Information
Roof Area: 6841.84
Ridge Line: 0
Hip Line: 0
Horiz Eave Line: 428.67
Raked Eave Line:281.35
Valley Line: 0

FLOOR TRUSS LAYOUT (NTS)

Thank you for giving us the opportunity to serve you. We appreciate your business and the confidence you have placed in us. Please call us if we can be of further assistance.

Model Name:	**TBD**	Mo	64063	**Lot / Blk:**	Lot
Address:	Lee Summit,			**Subdivision:**	

Job Name:	**Brinkmann Constructors**				
Structure Ref #:	**G01R**				
Designer:	Juan Quiroz				
OT Ref #:	B212230	**Status:**	Quote	**Date:**	2/9/2022

Mill Creek Truss
Building Dreams for a Lifetime
3363 S Halstead Rd
Halstead, KS 67056
Office: 316-830-6108

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

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

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

RE: B212230-G01F - Brinkmann Constructors

Site Information:

Project Customer: Valued customer Project Name: BRINKMANN CONSTRUCTORS
Lot/Block: Subdivision:
Model:
Address: TBD
City: Lee Summit State: Mo

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

Design Code: IBC2018/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: N/A Wind Speed: N/A mph Design Method: N/A
Roof Load: N/A psf Floor Load: 75.0 psf

Mean Roof Height (feet): N/A Exposure Category: N/A

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

SHOP DRAWING REVIEW

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

- [x] APPROVED
- [ ] FURNISH AS CORRECTED
- [ ] REJECTED: REVISE & RESUBMIT
- [ ] RETURNED NOT REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 06/08/2020 BY: MJF

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

Truss Design Engineer's Name: Sevier, Scott
My license renewal date for the state of Missouri is December 31, 2023.

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

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

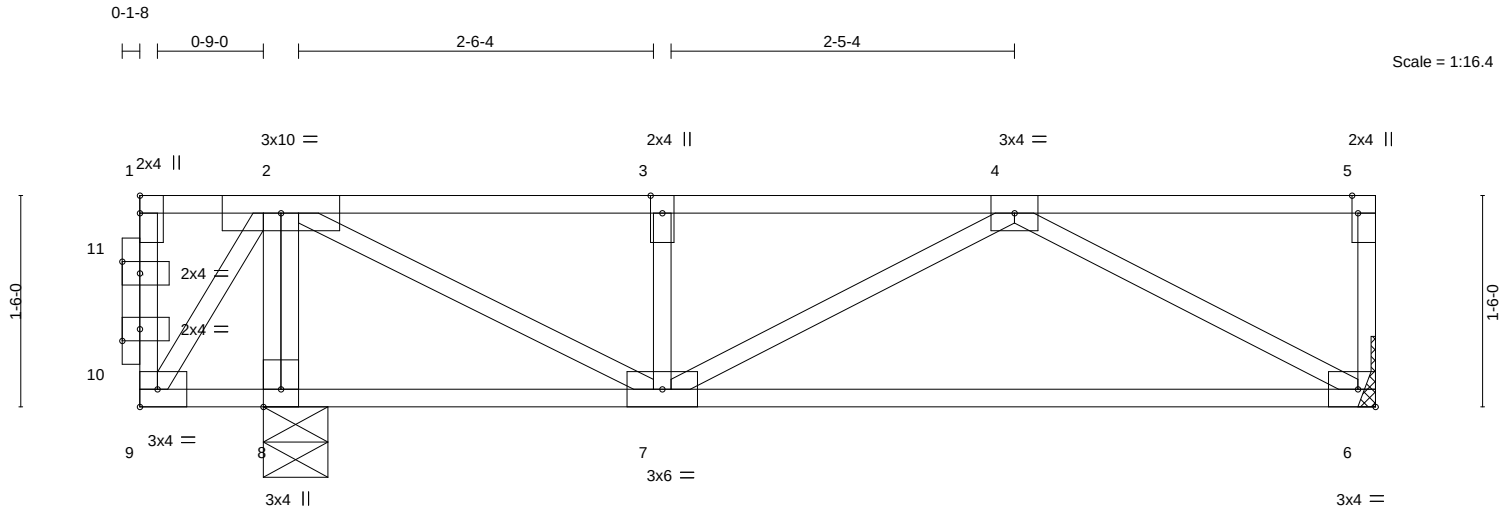
February 10,2022

Sevier, Scott

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:41 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-DC3Au?jopkjrYw9ALvhFoxFJZs88bxeCy7zOQrzmuGW



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

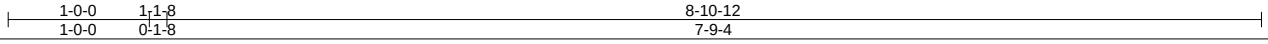


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [10:0-1-8,0-1-0], [11:0-1-8,0-1-0]

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

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

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

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

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

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

February 10,2022

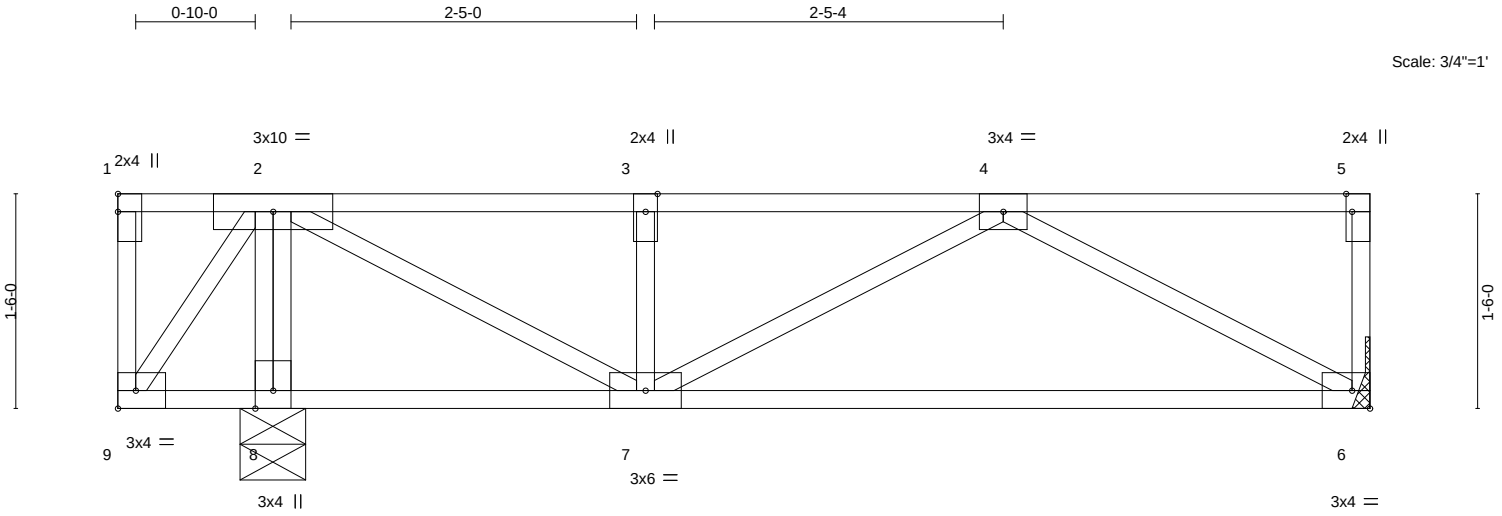
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:42 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-iOdZ5LkQa2riA4kMvcCUL8oUJFUPKOxMBnixyIzmuGV



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

1-1-0 (1-1-0) 8-9-0 (7-8-0)

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

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.01	7	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.09	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 38 lb	FT = 20%F, 11%E

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

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

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

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

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

February 10,2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:43 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-AaBxJhl2LMzZoEJYSJjjuMLf2fpJ3raVQRSUVkzmuGU

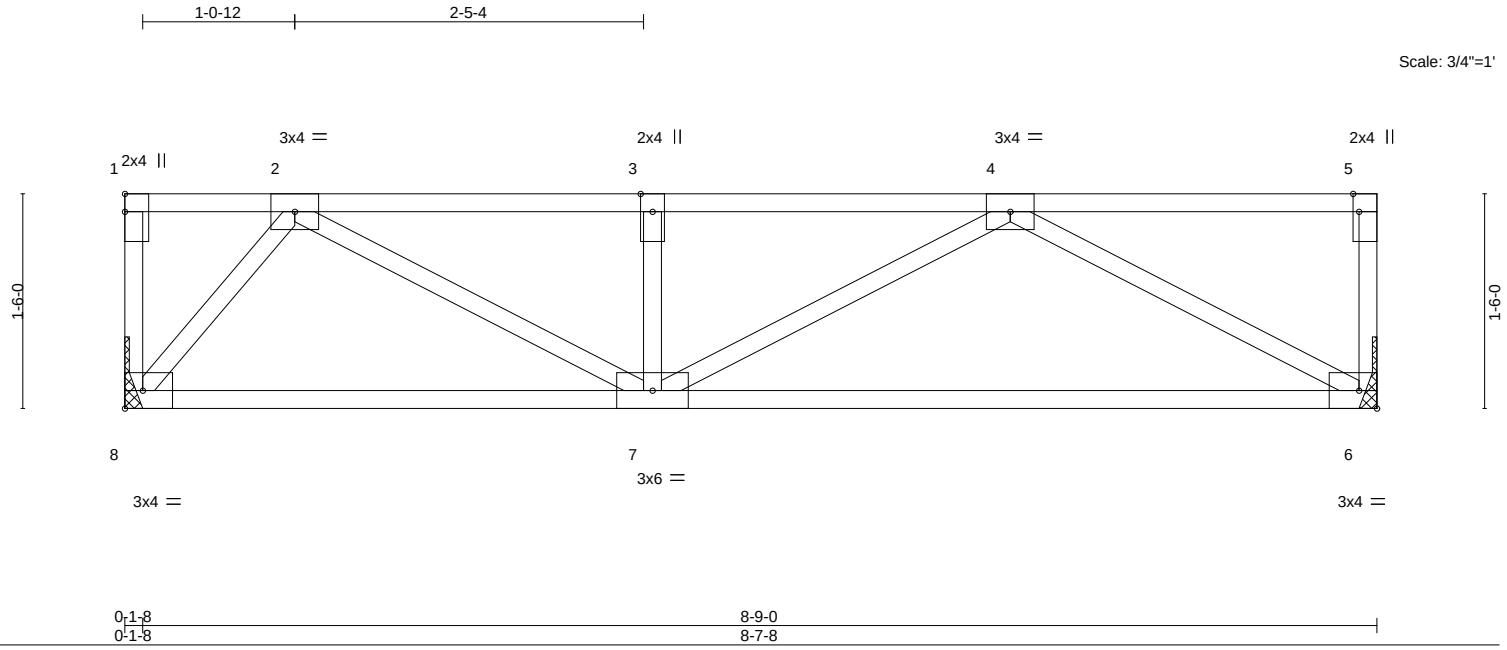


Plate Offsets (X,Y)-- [5:0-1-8,Edge]

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

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

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

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

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

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

February 10,2022

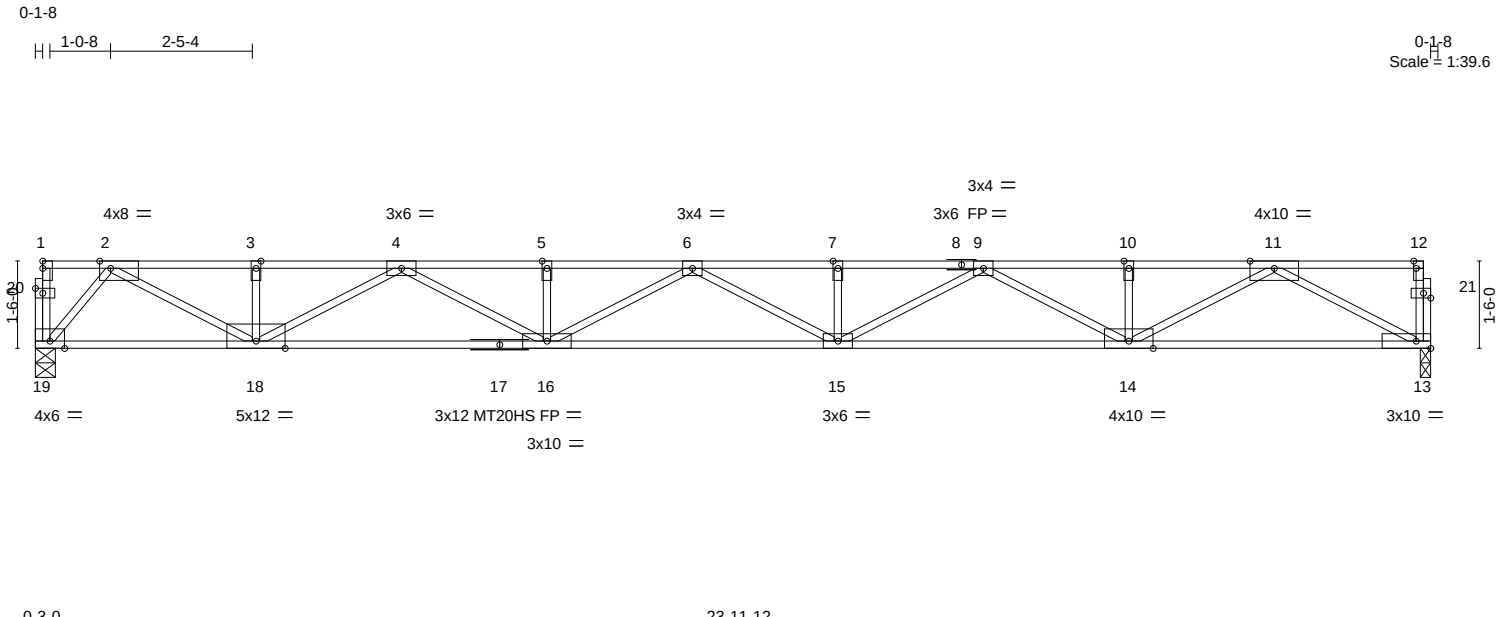
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:45 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-6zJhkNmJtzDH1YTxaklBznQrETPRXfQotlxbZdzmuGS



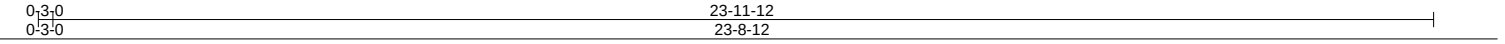


Plate Offsets (X,Y)-- [2:0-2-4,Edge], [12:0-1-8,Edge], [20:0-1-8,0-1-0], [21:0-1-8,0-1-0]

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

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

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

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

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

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

February 10,2022

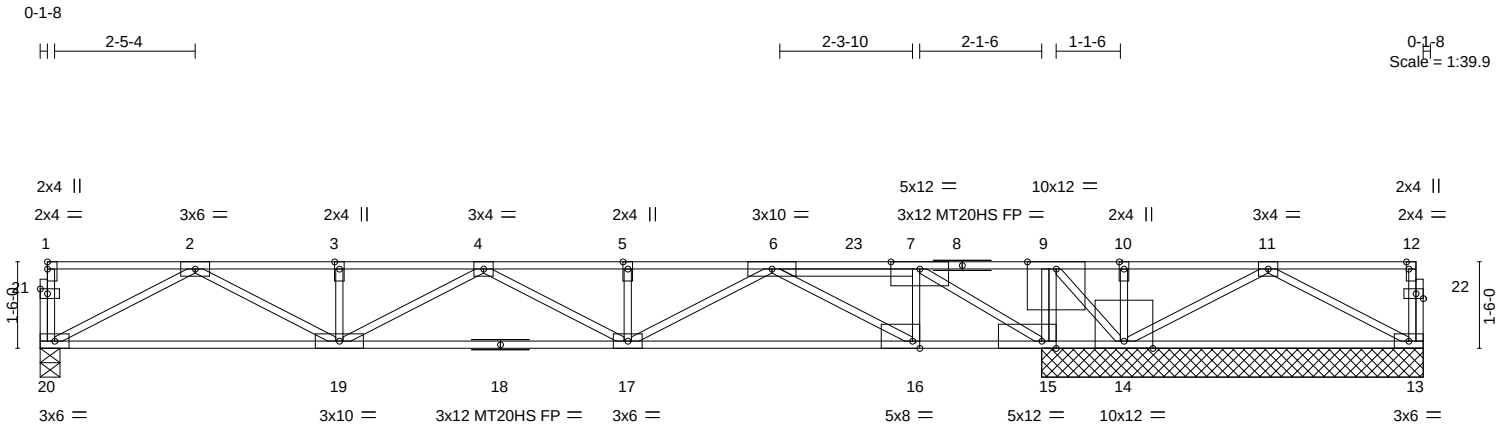
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:46 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-a9t3xjnxeHL8fi178SHQV_y1UtiXG2Cx6Pg953zmuGR



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

17-5-14
17-5-14
23-11-12
6-5-14

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [15:0-3-0,Edge], [16:0-1-8,Edge], [21:0-1-8,0-1-0], [22:0-1-8,0-1-0]

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

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

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

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2178/0, 3-4=-2178/0, 4-5=-2437/0, 5-6=-2442/0, 7-9=0/3511, 9-10=0/1603, 10-11=0/1603
BOT CHORD 19-20=0/1329, 17-19=0/2514, 16-17=0/1981, 14-15=-3511/0, 13-14=-574/0
WEBS 9-15=-2126/0, 2-20=-1503/0, 2-19=0/970, 4-19=-383/0, 6-17=0/511, 6-16=-2268/0, 7-16=0/1139, 7-15=-4083/0, 11-13=0/656, 11-14=-1174/0, 9-14=0/2777

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

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

February 10,2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:47 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-2MQS93oZPaT?GrcJh9of2CVL5G6o?bH5K3QieVzmuGQ

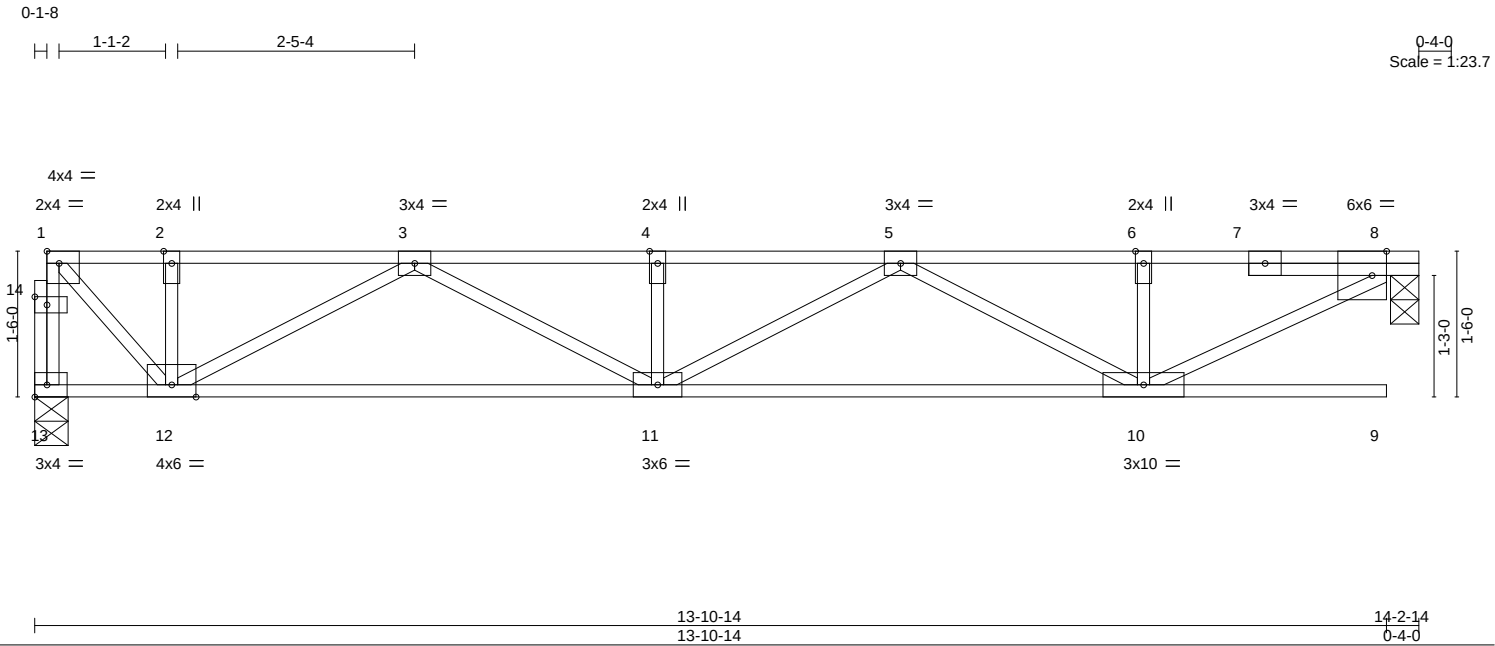


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [8:0-1-13,Edge], [14:0-1-8,0-1-0]

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

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

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

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

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

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

February 10,2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:48 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-WY_qMPpBAucsu?BWFtJubP2WtgS6k2bEZj9FAxzmuGP

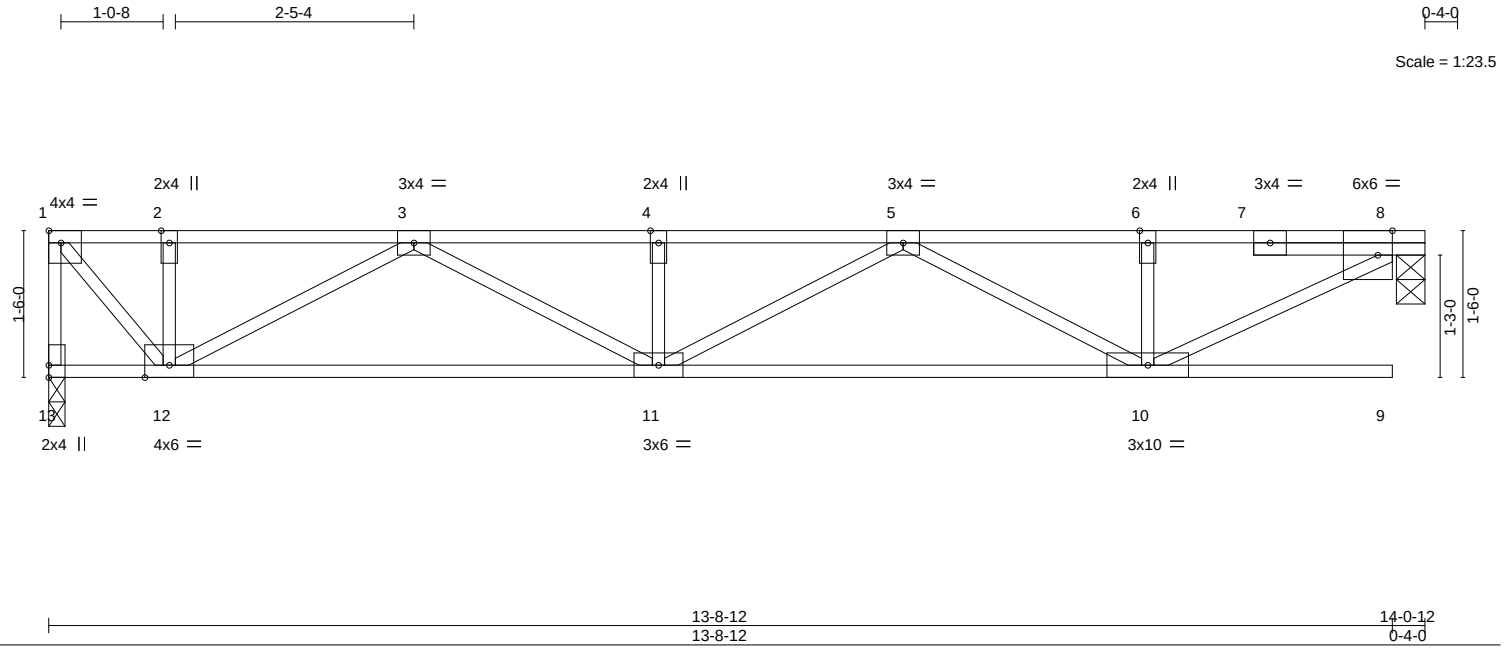


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [8:0-1-13,Edge]

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

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

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

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

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

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

February 10,2022

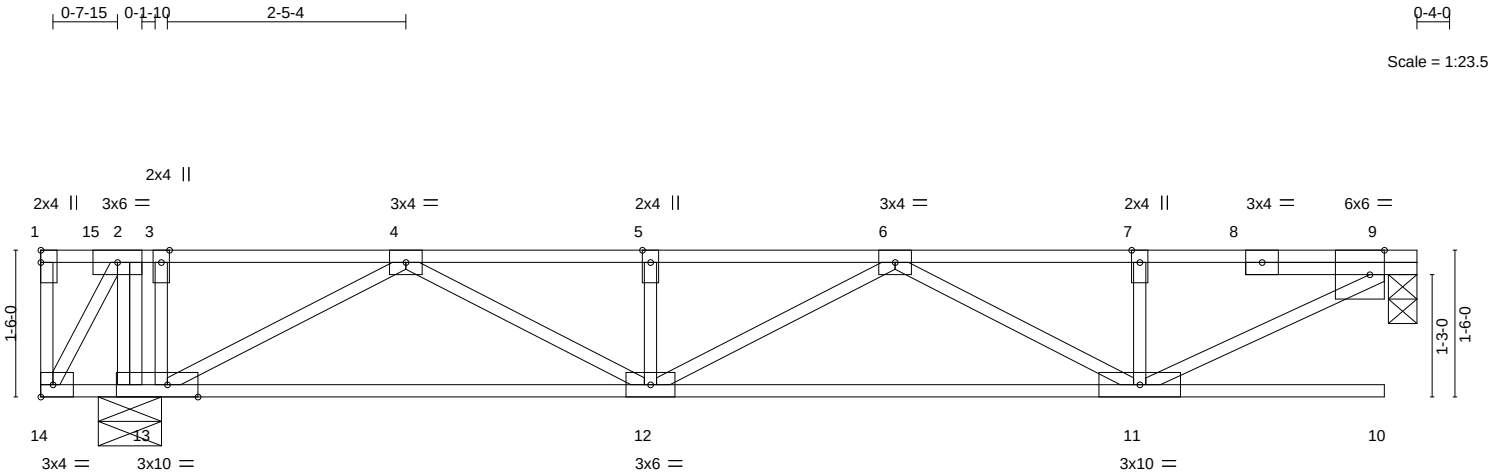
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F15	Floor	2	1	I50150118
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:51 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-x7gy_Qr3Sp_RlTw5w?sbC2g1TuUcxQqgFhOwnGzmuGM



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

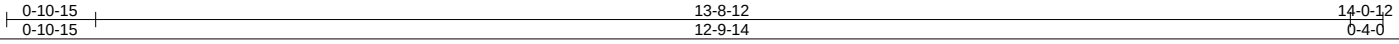


Plate Offsets (X,Y)-- [9:0-1-13,Edge], [13:0-3-12,Edge]

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

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

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

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-1428/0, 5-6=-1428/0, 6-7=-973/0, 7-9=-977/0
BOT CHORD 12-13=0/953, 11-12=0/1401
WEBS 9-11=0/1100, 6-11=-488/0, 4-12=0/546, 4-13=-1037/0

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

February 10,2022

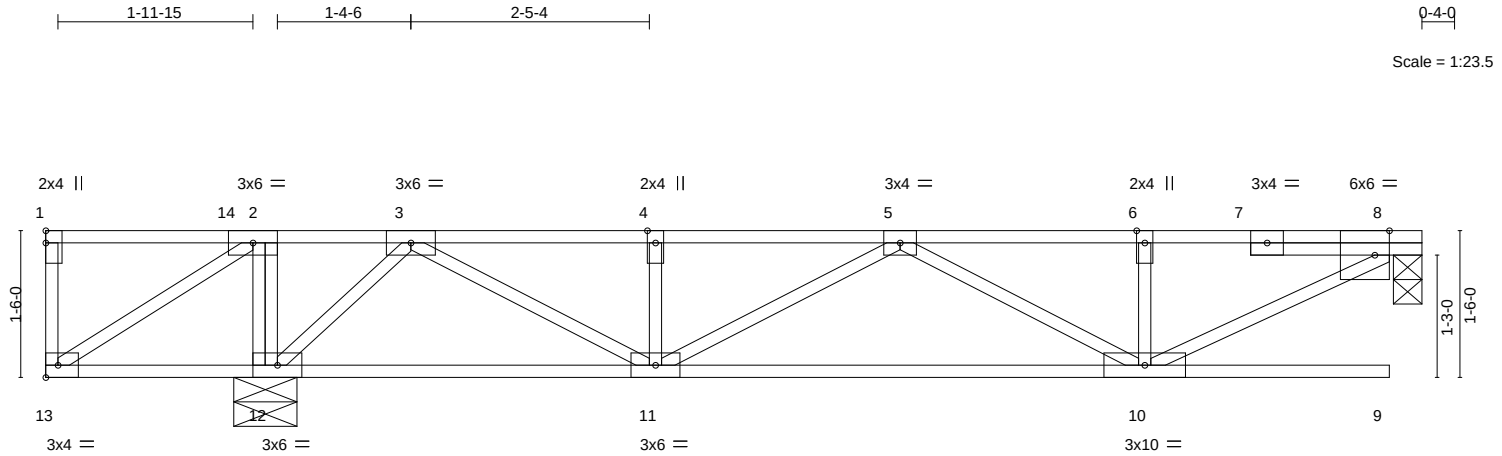
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:52 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-PJELCmsiD76HNdVHUiNqlFCCLHrogtfqUL7TJjzmuGL



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

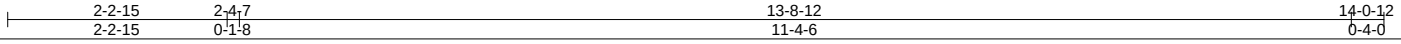


Plate Offsets (X,Y)-- [8:0-1-13,Edge]

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

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

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

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-1078/0, 4-5=-1078/0, 5-6=-858/0, 6-8=-861/0
BOT CHORD 11-12=0/487, 10-11=0/1166
WEBS 2-12=-266/0, 8-10=0/969, 5-10=-351/0, 3-11=0/701, 3-12=-742/0

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

February 10,2022

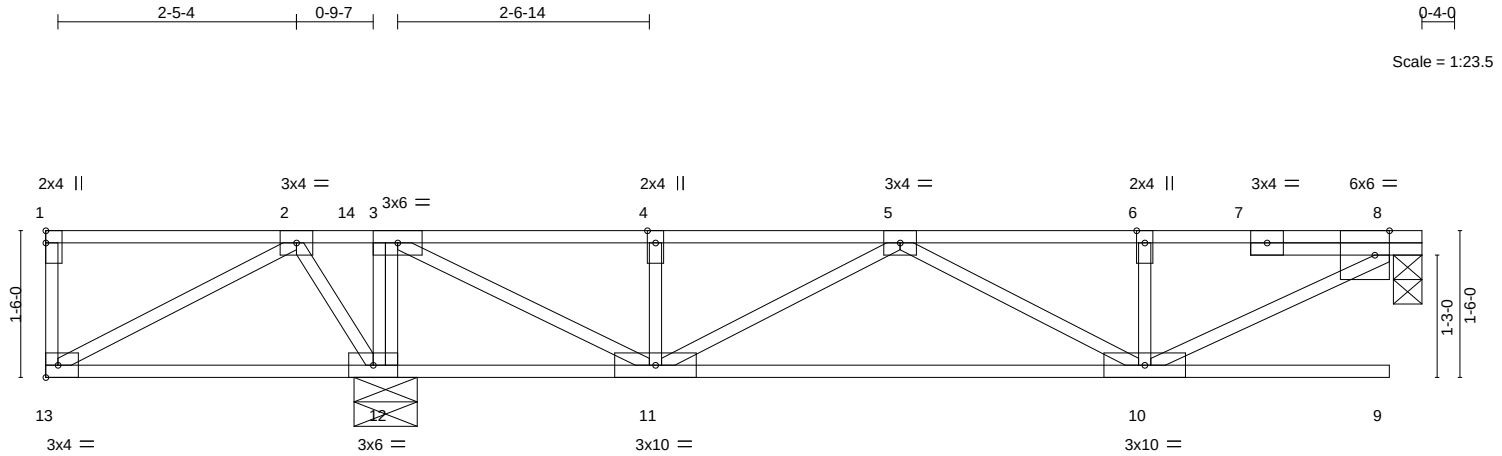
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:53 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-tWojP6tK_QE8_m4T2Qv3ITlLKhCAPKuzj?t0r9zmuGK



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

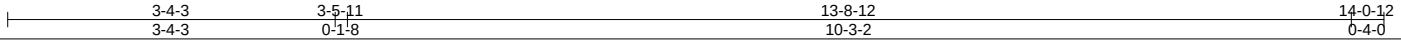


Plate Offsets (X,Y)-- [8:0-1-13,Edge]

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

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

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

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

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

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

February 10,2022

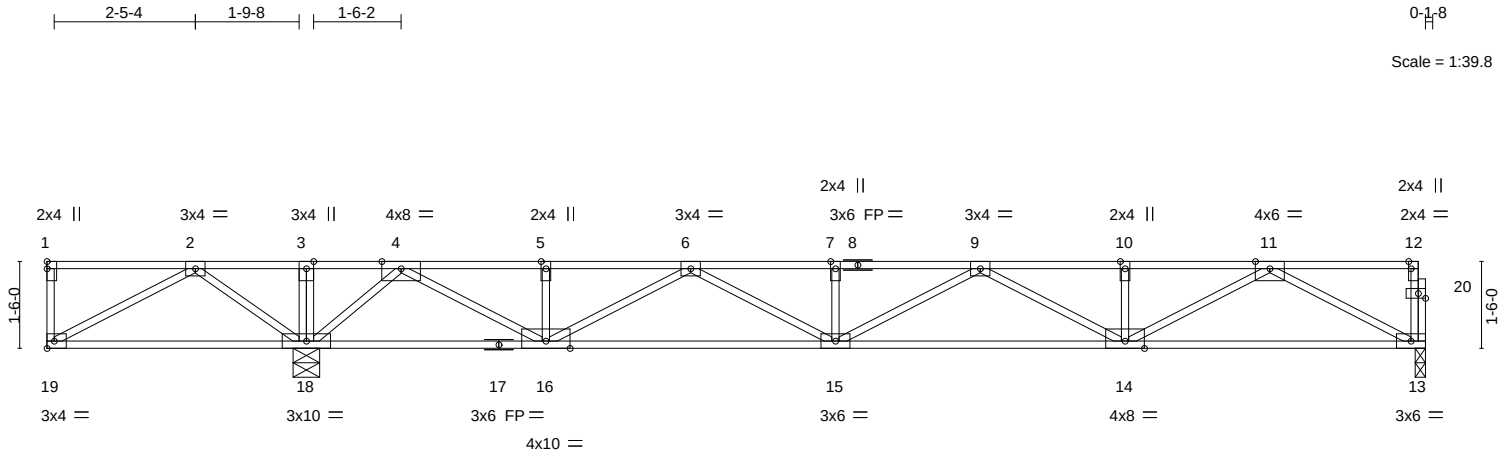
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F18	Floor	4	1	I50150121
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:54 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-LiL5dStylkM?cwffc7QIqgIVa5QN8li7xfcaObzmuGJ



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

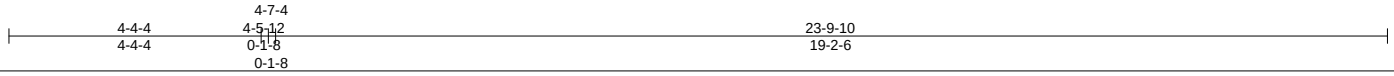


Plate Offsets (X,Y)-- [12:0-1-8,Edge], [20:0-1-8,0-1-0]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.19	15	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.34	15-16	>679	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.07	13	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 95 lb	FT = 20%F, 11%E

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

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

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

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

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

February 10,2022

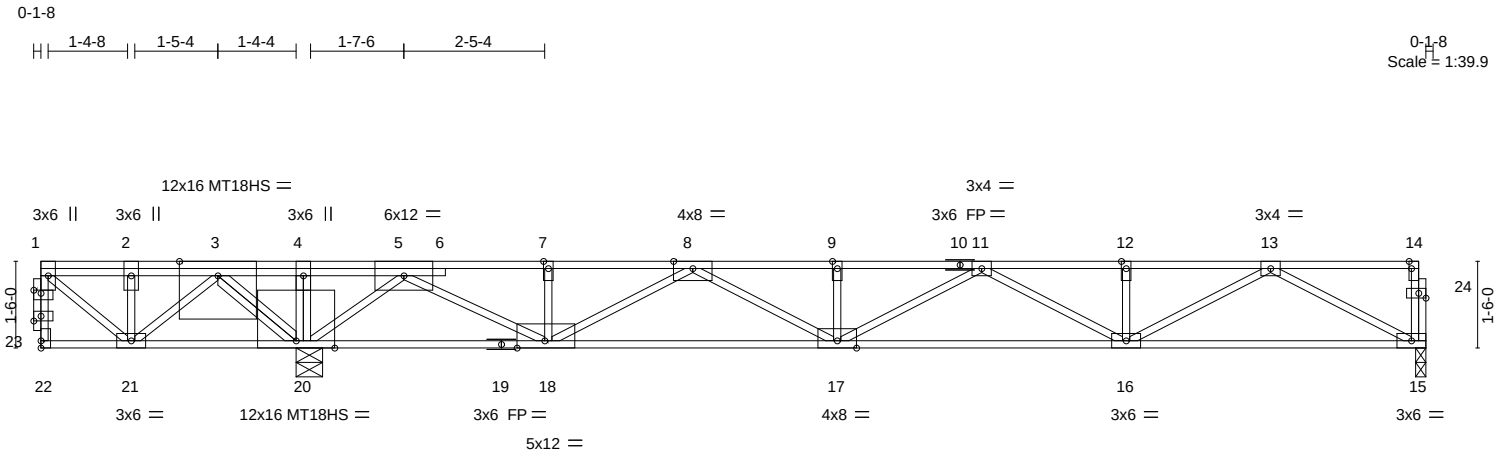
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:57 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-lH1EFUwq2fkaTONEHGz?SJwyvITpL2cZedrE_wzmuGG



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

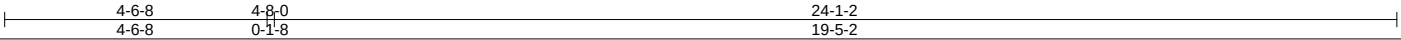


Plate Offsets (X,Y)-- [1:0-1-8,0-0-10], [14:0-1-8,Edge], [18:0-5-12,Edge], [23:0-1-8,0-1-0], [24:0-1-8,0-1-0]

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

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

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

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=0/6136, 4-5=0/6136, 5-7=0/3514, 7-8=0/3514, 8-9=-534/1491, 9-11=-534/1491, 11-12=-1215/301, 12-13=-1215/301
BOT CHORD 20-21=-415/0, 18-20=-4993/0, 17-18=-2434/0, 16-17=-820/1073, 15-16=-65/843
WEBS 4-20=-254/0, 3-20=-7766/0, 3-21=0/453, 13-15=-952/75, 13-16=-269/425, 11-16=0/593, 11-17=-765/0, 8-17=0/1257, 8-18=-1701/0, 5-18=0/2393, 5-20=-2166/0

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

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

February 10,2022

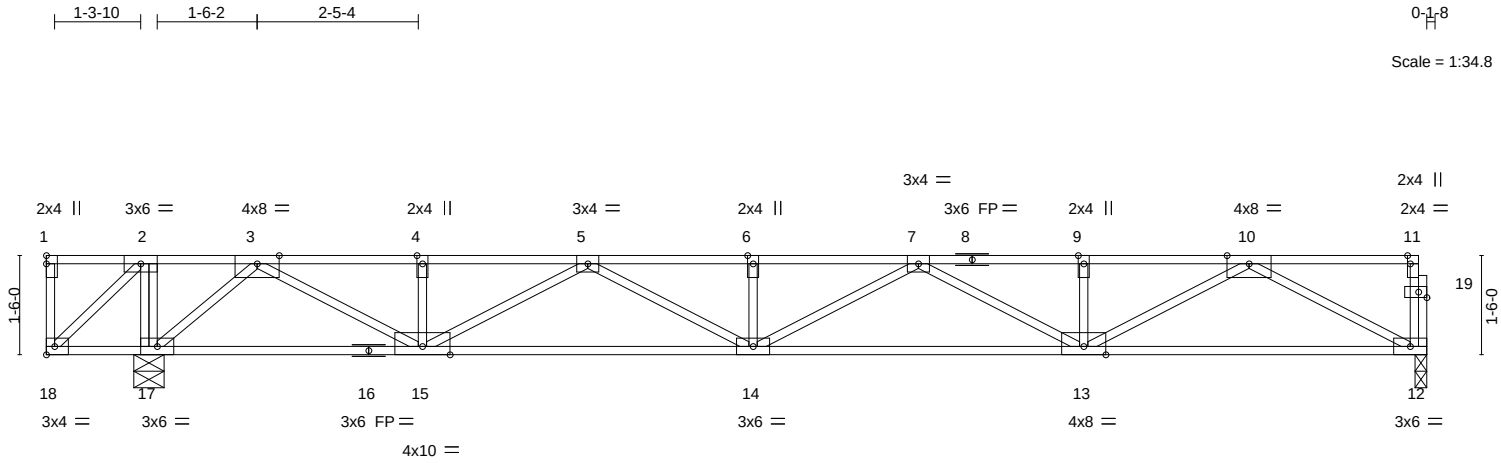
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

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



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

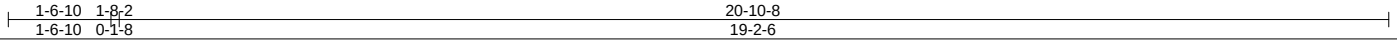


Plate Offsets (X,Y)-- [11:0-1-8,Edge], [19:0-1-8,0-1-0]

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

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

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

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

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

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

February 10,2022

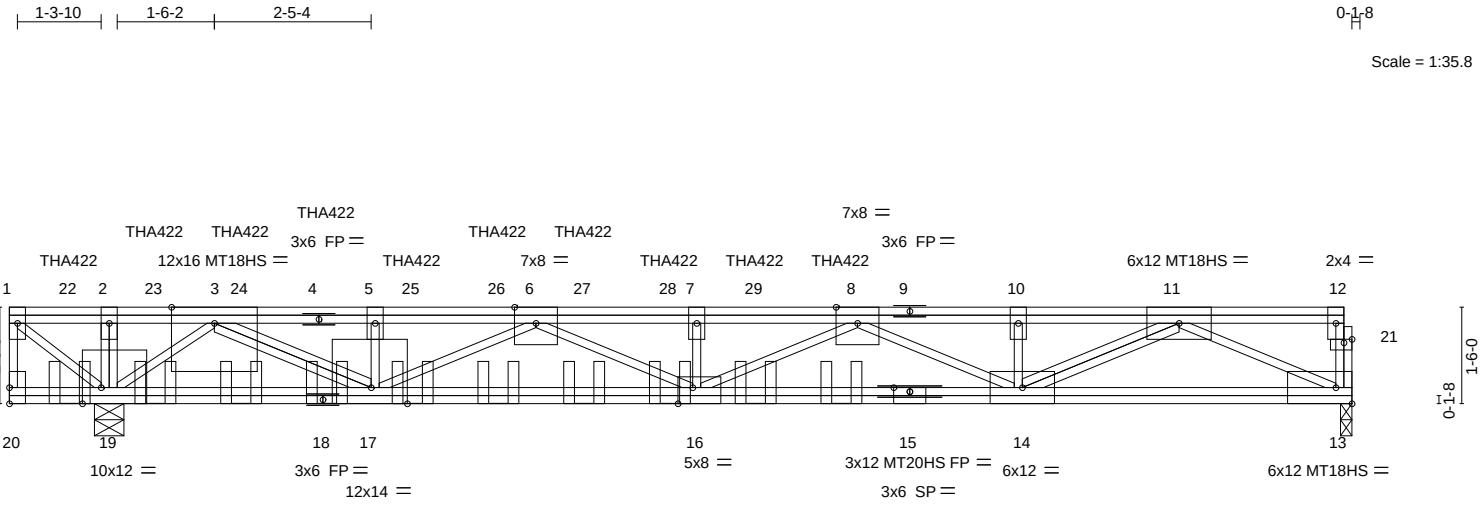
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:00 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-AsjMtVyjLa69Kr6pyOXi4xYTUWWRYLx?Kb3ubFzmuGD



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

1-6-10 / 1-6-10 — 20-10-8 / 19-3-14

Plate Offsets (X,Y)-- [16:0-2-12,Edge], [17:0-6-12,Edge], [19:0-3-8,Edge], [21:0-1-8,0-0-10]

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

LUMBER-
TOP CHORD 2x4 SPF No.2(flat) *Except* 1-9,4-12: 2x4 SPF 2100F 1.8E(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat) *Except* 18-20: 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

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

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

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

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

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

February 10,2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:01 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-e2Hk5rzL6tE0y?h0W52xc94bTwtKHuJ9YFpR7hzmuGC

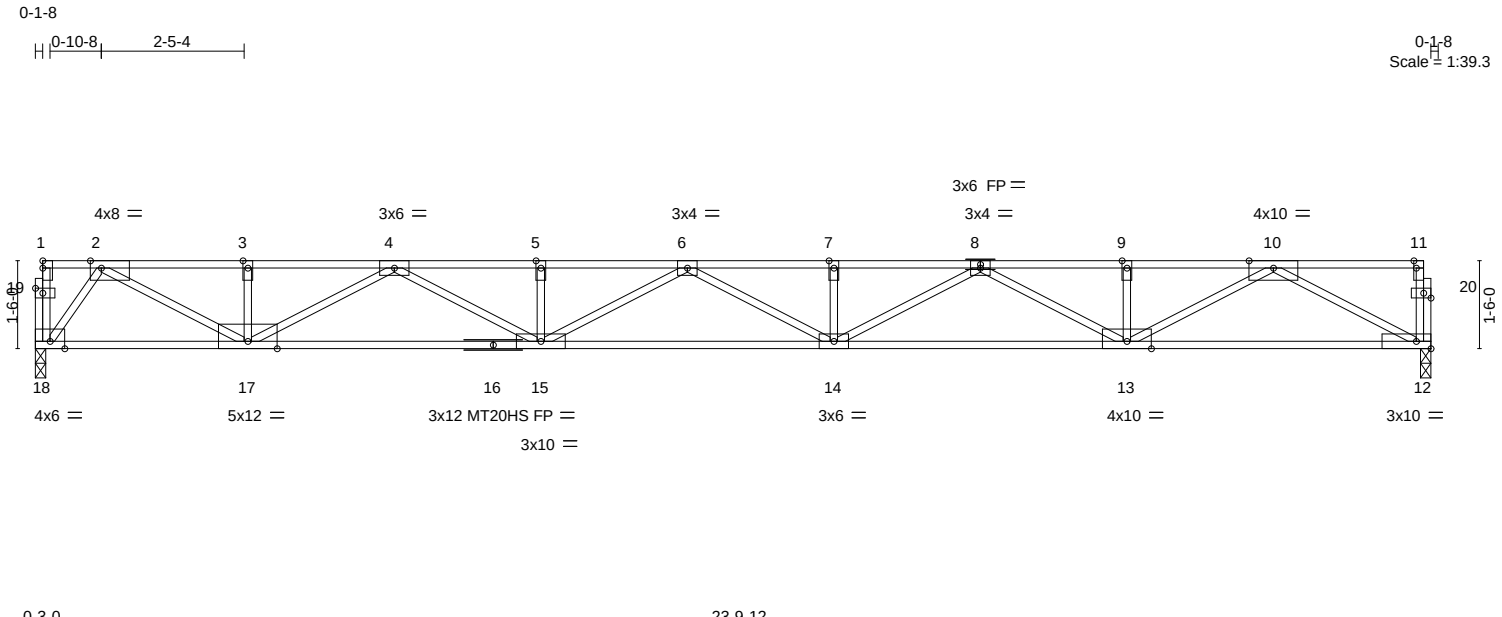


Plate Offsets (X,Y)-- [2:0-2-4,Edge], [11:0-1-8,Edge], [19:0-1-8,0-1-0], [20:0-1-8,0-1-0]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.36	14-15	>779	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.70	14-15	>403	360	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.10	12	n/a	n/a		
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S							Weight: 95 lb	FT = 20%F, 11%E

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

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

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

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

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

February 10,2022

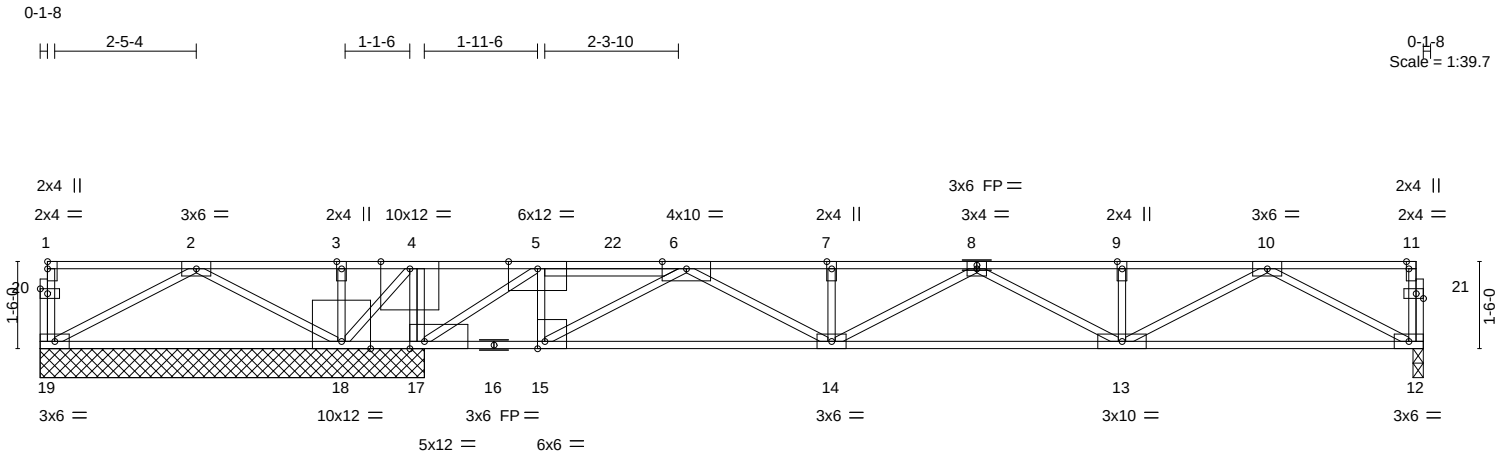
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F22	Floor	4	1	I50150126
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:02 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-6Eq7IB_ztBMtZ9GC4pZA9Mdl4JAf0HxInuY?g8zmuGB



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

6-5-14 / 6-5-14 — 23-9-12 / 17-3-14

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [15:0-1-8,Edge], [17:0-3-0,Edge], [20:0-1-8,0-1-0], [21:0-1-8,0-1-0]

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

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

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

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

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

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

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

February 10,2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F23	Floor	4	1	I50150127
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:02 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-6Eq7IB_ztBMtZ9GC4pZA9MdvNJER0O4InuY?g8zmuGB

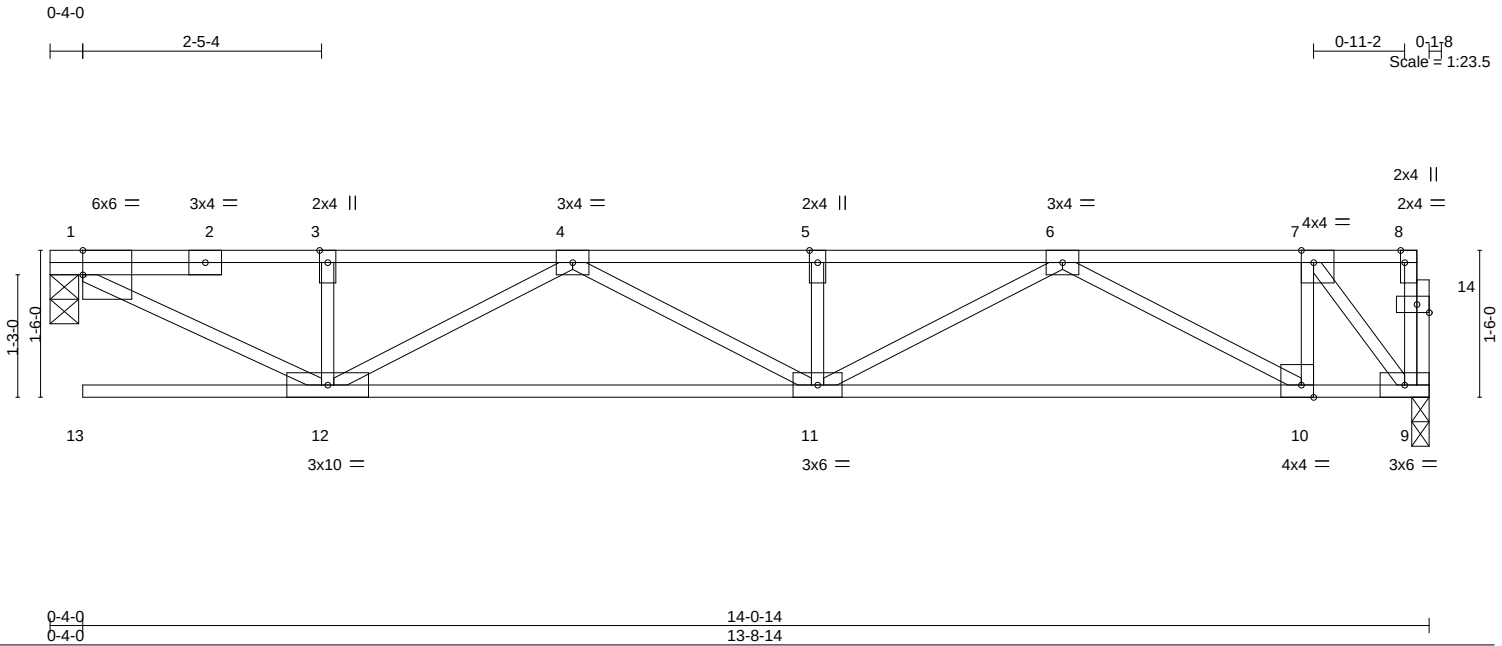


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [8:0-1-8,Edge], [10:0-1-8,Edge], [14:0-1-8,0-1-0]

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

LUMBER-

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

BRACING-

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

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

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

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

February 10,2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:03 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-aROVVX_beVVkBJrOdW4PhaA49jallrNR0YIYCazmuGA

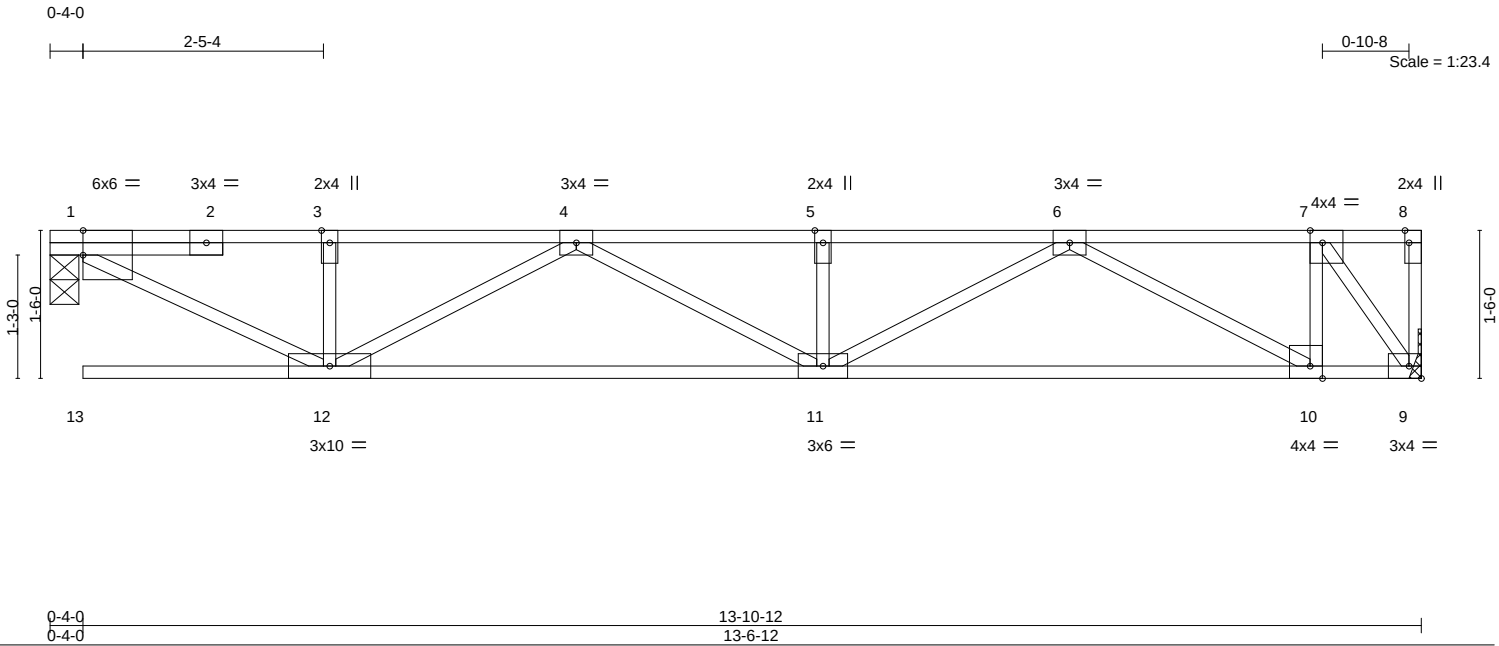


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [8:0-1-8,Edge], [10:0-1-8,Edge]

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

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

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

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

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

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

February 10,2022

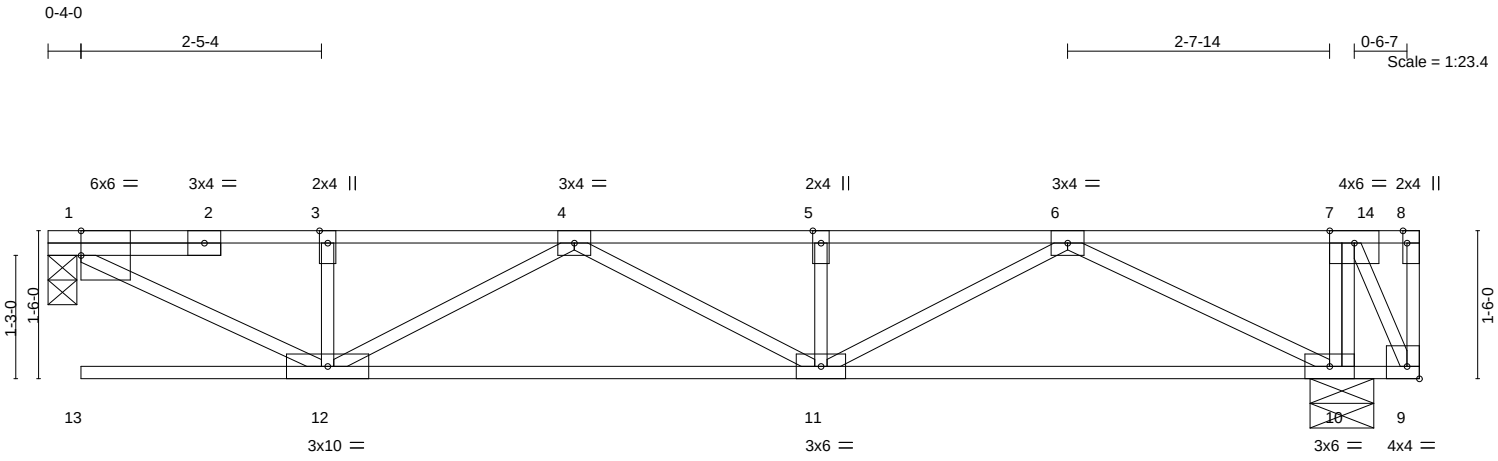
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:04 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-2dytjt?DOodbpTPaBEbeEniFj7wWUJzbFC16k0zmuG9



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

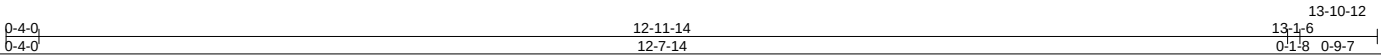


Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:Edge,0-1-8]

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

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

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

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

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

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

February 10,2022

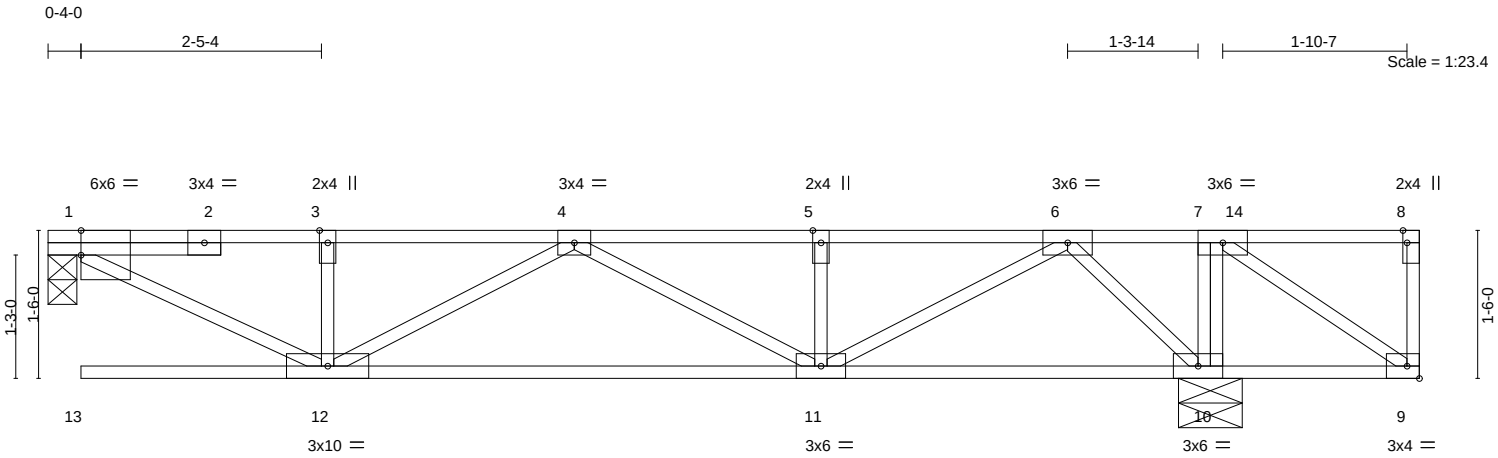
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:05 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-XpWFwD0r96lRQc_nlx6tn?FQ4XHsDlukTsnfGSzmuG8



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

0-4-0	11-7-14		11-9-6	13-10-12
0-4-0	11-3-14		0-1-8	2-1-7

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

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

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-10.

REACTIONS. (size) 1=0-3-8, 10=0-7-12
Max Grav 1=564(LC 3), 10=796(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-859/0, 3-4=-856/0, 4-5=-1072/0, 5-6=-1072/0
BOT CHORD 11-12=0/1162, 10-11=0/480
WEBS 1-12=0/967, 4-12=-349/0, 6-11=0/699, 6-10=-732/0

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

February 10,2022

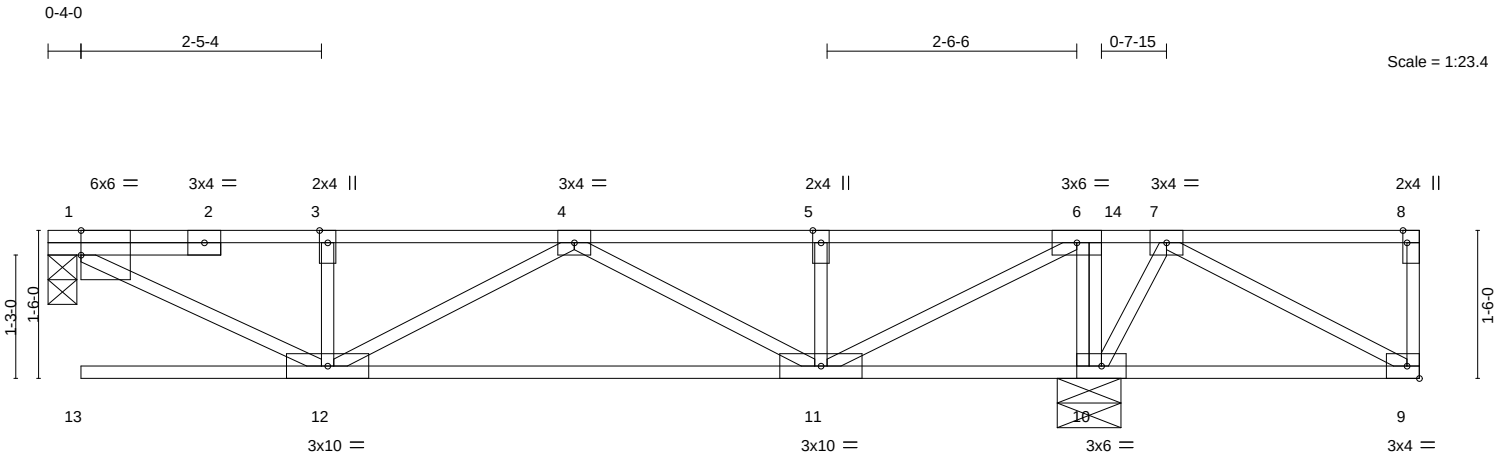
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:07 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-TCe0Lu16hj?9gw89sM9LsQKkpK_ShfR1xAGmLLzmuG6



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

0-4-0	10-6-10	10-8-2	13-10-12
0-4-0	10-2-10	0-1-8	3-2-11

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

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

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

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

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

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

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

February 10,2022

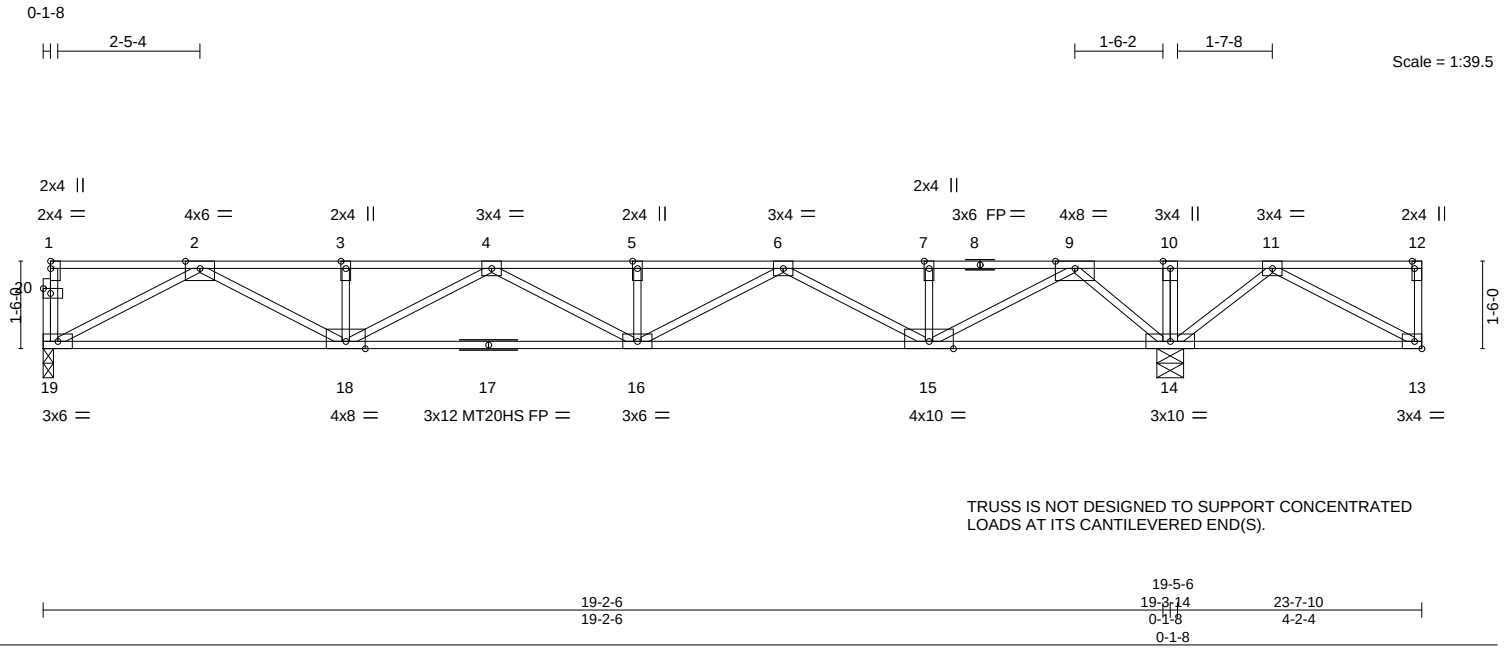
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:07 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-TCe0Lu16hj?9gw89sM9LsQKjGKsOhdy1xAGmLLzmuG6



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

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

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

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

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

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

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

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

February 10,2022

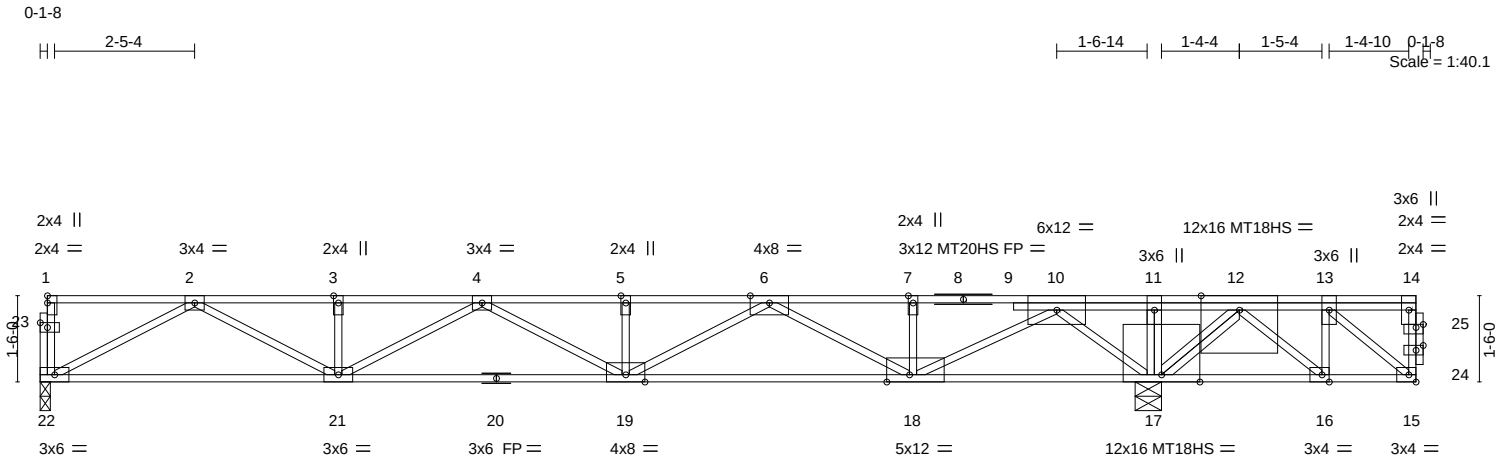
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:08 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-xOCOZE2kS170H4jMQ3gaOdtrAkDdQ0JAAq0JtnzmuG5



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

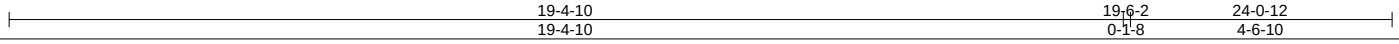


Plate Offsets (X,Y)-- [16:0-1-8,Edge], [18:0-4-12,Edge], [23:0-1-8,0-1-0], [24:0-1-8,0-1-0], [25:0-1-8,0-0-10]

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

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E(flat)
BOT CHORD 2x4 SPF No.2(flat) *Except*
15-20: 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)

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

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

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

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

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

February 10,2022

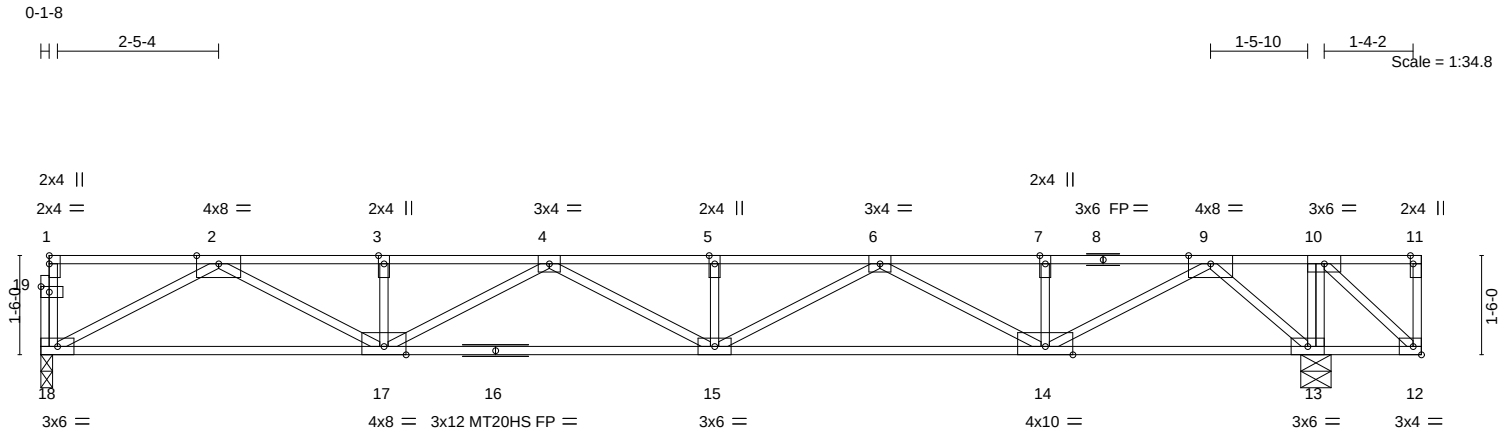
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:09 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-Pblmma3MDLFtvEIY_nBpxrP3O8YU9XnKOUlsQEzmuG4



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

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

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [19:0-1-8,0-1-0]

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

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

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

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

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

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

February 10,2022

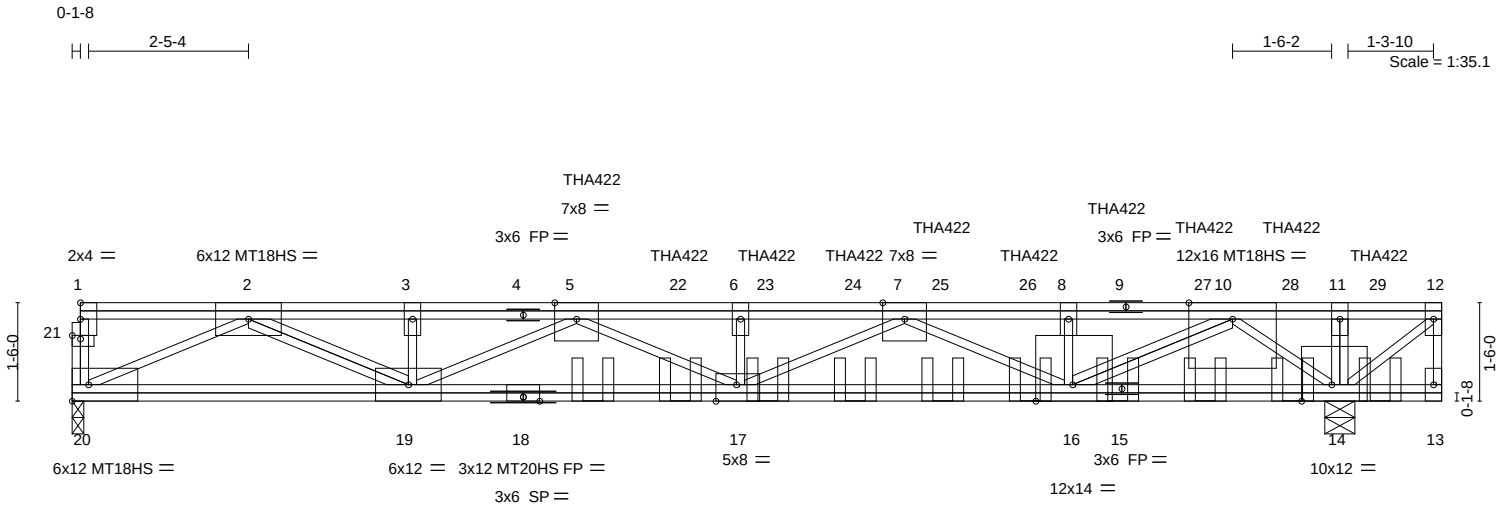
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:11 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-LztWBG5clyVb9XSx5CDH0GVMjxG0dJgdsoEzU6zmuG2



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

19-3-14 / 19-3-14 | 20-10-8 / 1-6-10

Plate Offsets (X,Y)-- [14:0-5-8,Edge], [16:0-6-12,Edge], [17:0-3-12,Edge], [21:0-1-8,0-0-10]

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

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E(flat) *Except* 1-4,9-12: 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat) *Except* 13-15: 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

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

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

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

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

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

February 10,2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

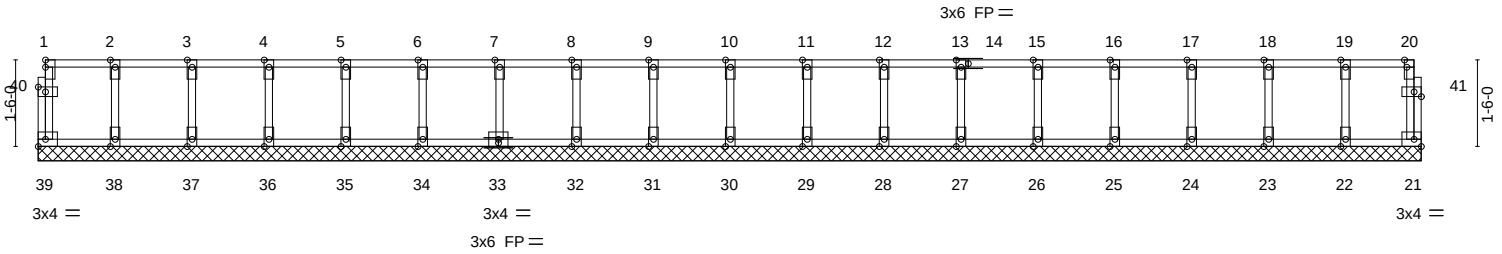
Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:12 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-pARuOc5EWGdSmh17fvkWZT1fZLn?M_Zm4S_X0YzmuG1

0-1-8 0-1-8

Scale = 1:39.9



23-11-12
23-11-12

Plate Offsets (X,Y)-- [20:0-1-8,Edge], [40:0-1-8,0-1-0], [41:0-1-8,0-1-0]

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

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

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

REACTIONS. All bearings 23-11-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 39, 21, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22

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

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

February 10,2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

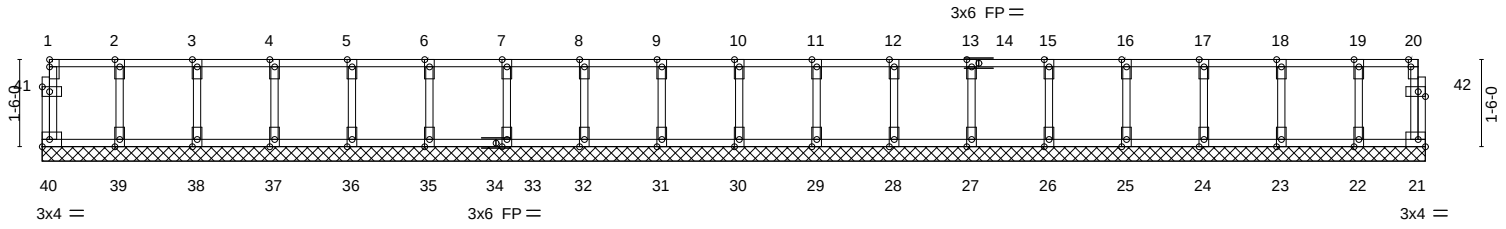
Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:15 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-Ek711d87pB?1d9liK2IEB6f9oZpkZLICnQCBdtzmuG_

0-1-8 0-1-8

Scale = 1:39.7



23-9-12
23-9-12

Plate Offsets (X,Y)-- [20:0-1-8,Edge], [41:0-1-8,0-1-0], [42:0-1-8,0-1-0]

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

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

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

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

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

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

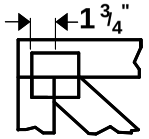
February 10,2022

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

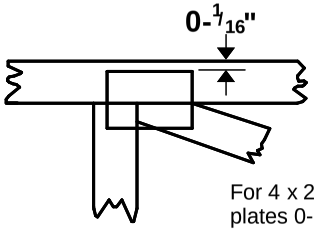
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

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

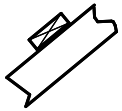
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

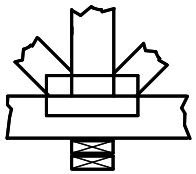
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

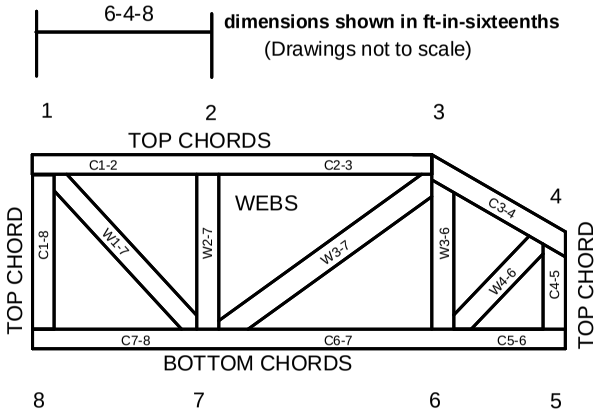


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

© 2012 MiTek® All Rights Reserved

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

21.The design does not take into account any dynamic or other loads other than those expressly stated.

Building 1

RE: B212230-G01R - Brinkmann Constructors

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

Site Information:

Project Customer: Valued customer Project Name: BRINKMANN CONSTRUCTORS
Lot/Block: Subdivision:
Model:
Address: TBD
City: Lee Summit State: Mo

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

Design Code: IBC2018/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-16 Wind Speed: 115 mph Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16
Roof Load: 40.0 psf Floor Load: N/A psf

Mean Roof Height (feet): 25 Exposure Category: C

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

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

Truss Design Engineer's Name: Sevier, Scott
My license renewal date for the state of Missouri is December 31, 2023.

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

February 15,2022
Sevier, Scott

RE: B212230-G01R - Brinkmann Constructors

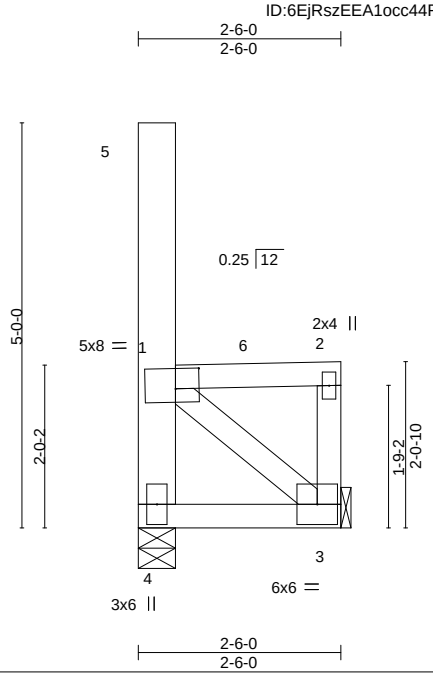
MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

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

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:32 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-Yypo4oroBV0P3dwG_ijHiz9qoFzC5_U9s_29QZzIHNf



SHOP DRAWING REVIEW

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

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 02/19/2022 BY: cb

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

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

LUMBER-

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

BRACING-

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

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

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

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

NOTES-

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

LOAD CASE(S) Standard

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-41, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-52-to-6=-41

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=-12, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-40-to-6=-28

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=-5, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-47-to-6=-36

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=-12, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-40-to-6=-28

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=-5, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-47-to-6=-36

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-6=-60

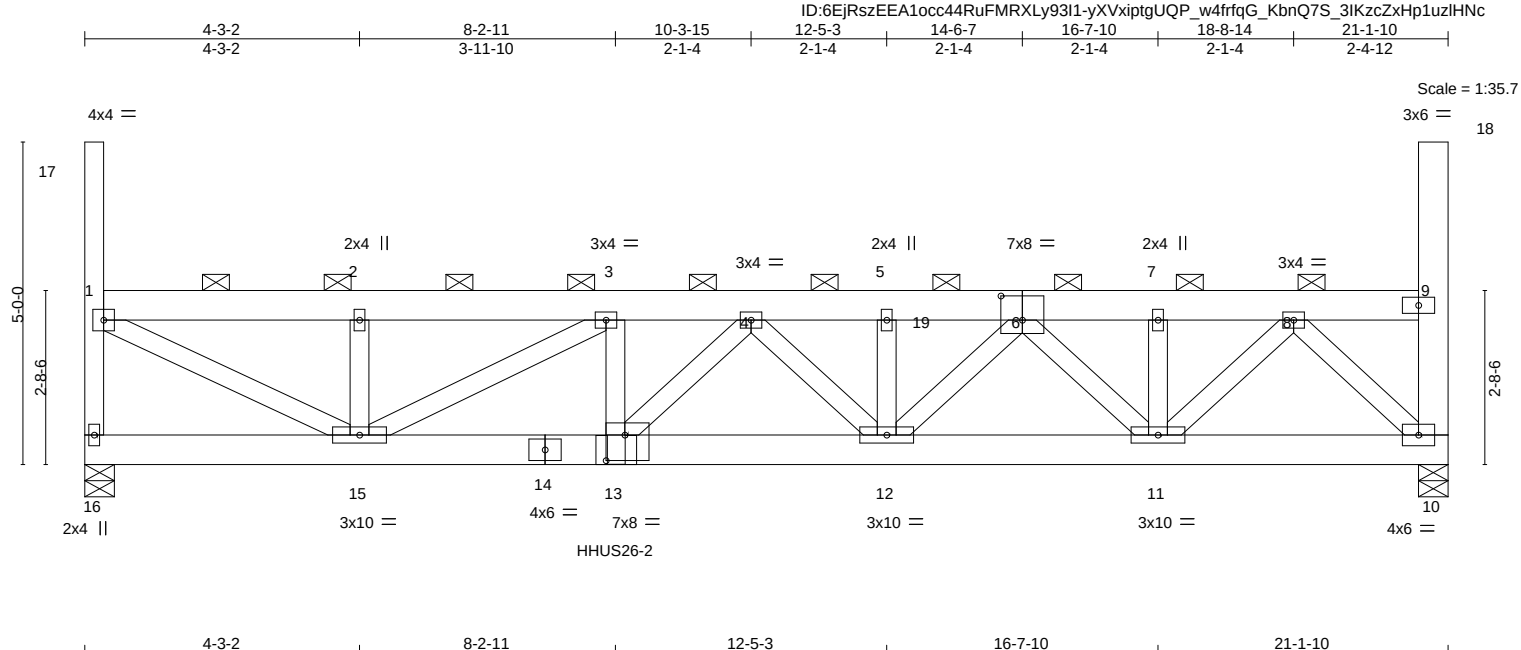
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:35 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-yXVxiptgUQP_w4frfqG_KbnQ7S_3IKzcZxHp1uzlHNc



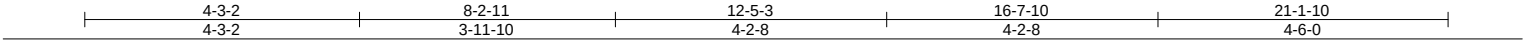


Plate Offsets (X,Y)-- [6:0-4-0,0-4-8], [13:0-3-8,0-4-12]

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

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except*
10-18: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-17, 1-9, 9-18, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

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

LOAD CASE(S)

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

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=7, 1-17=-33, 9-10=15, 9-18=33
Concentrated Loads (lb)
Vert: 13=378(F)
Trapezoidal Loads (plf)
Vert: 19=16-to-9=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=-15, 1-17=-33, 9-10=-7, 9-18=33
Concentrated Loads (lb)
Vert: 13=378(F)
Trapezoidal Loads (plf)
Vert: 19=16-to-9=1

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=7, 1-17=-33, 9-10=15, 9-18=33
Concentrated Loads (lb)
Vert: 13=378(F)
Trapezoidal Loads (plf)
Vert: 19=16-to-9=1

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=-15, 1-17=-33, 9-10=-7, 9-18=33
Concentrated Loads (lb)
Vert: 13=378(F)
Trapezoidal Loads (plf)
Vert: 19=16-to-9=1

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=-3, 10-16=-20
Horz: 1-16=19, 1-17=-33, 9-10=4, 9-18=33
Concentrated Loads (lb)
Vert: 13=386(F)
Trapezoidal Loads (plf)
Vert: 19=-3-to-9=-18

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=-3, 10-16=-20
Horz: 1-16=-4, 1-17=-33, 9-10=-19, 9-18=33
Concentrated Loads (lb)
Vert: 13=386(F)
Trapezoidal Loads (plf)
Vert: 19=-3-to-9=-18

16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-19=-20, 10-16=-20
Concentrated Loads (lb)
Vert: 13=-493(F)
Trapezoidal Loads (plf)
Vert: 19=-20-to-9=-35

17) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 10-16=-20
Horz: 1-16=18, 1-17=37, 9-10=5, 9-18=25
Concentrated Loads (lb)
Vert: 13=218(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-3=-43, 3=-43-to-19=-47, 19=-36-to-9=-51

18) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 10-16=-20
Horz: 1-16=-5, 1-17=-25, 9-10=-18, 9-18=-37
Concentrated Loads (lb)
Vert: 13=218(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-3=-43, 3=-43-to-19=-47, 19=-36-to-9=-51

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 10-16=-20
Horz: 1-16=14, 1-17=-25, 9-10=3, 9-18=25
Concentrated Loads (lb)
Vert: 13=218(F)

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

Trapezoidal Loads (plf)
Vert: 1=-47-to-3=-43, 3=-43-to-19=-47, 19=-36-to-9=-51

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 10-16=-20
Horz: 1-16=-3, 1-17=-25, 9-10=-14, 9-18=25
Concentrated Loads (lb)
Vert: 13=218(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-3=-43, 3=-43-to-19=-47, 19=-36-to-9=-51

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=-38, 10-16=-20
Horz: 1-16=18, 1-17=37, 9-10=5, 9-18=25
Concentrated Loads (lb)
Vert: 13=218(F)
Trapezoidal Loads (plf)
Vert: 19=-38-to-9=-53

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=-38, 10-16=-20
Horz: 1-16=-5, 1-17=-25, 9-10=-18, 9-18=-37
Concentrated Loads (lb)
Vert: 13=218(F)
Trapezoidal Loads (plf)
Vert: 19=-38-to-9=-53

23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=-38, 10-16=-20
Horz: 1-16=14, 1-17=-25, 9-10=3, 9-18=25
Concentrated Loads (lb)
Vert: 13=218(F)
Trapezoidal Loads (plf)
Vert: 19=-38-to-9=-53

24) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=-38, 10-16=-20
Horz: 1-16=-3, 1-17=-25, 9-10=-14, 9-18=25
Concentrated Loads (lb)
Vert: 13=218(F)
Trapezoidal Loads (plf)
Vert: 19=-38-to-9=-53

25) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-19=-60, 10-16=-20
Concentrated Loads (lb)
Vert: 13=-960(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-3=-60, 19=-60-to-9=-75

26) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=-12, 10-16=-12
Horz: 1-16=16, 1-17=16
Concentrated Loads (lb)
Vert: 13=295(F)
Trapezoidal Loads (plf)
Vert: 19=-12-to-9=-27

27) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=-12, 10-16=-12
Horz: 9-10=-16, 9-18=-16
Concentrated Loads (lb)
Vert: 13=295(F)
Trapezoidal Loads (plf)
Vert: 19=-12-to-9=-27

28) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-19=-60, 10-16=-20
Concentrated Loads (lb)
Vert: 13=-1155(F)
Trapezoidal Loads (plf)
Vert: 19=-60-to-9=-75

29) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-19=-60, 10-16=-20

Continued on page 5

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

Concentrated Loads (lb)
Vert: 13=-1155(F)
Trapezoidal Loads (plf)
Vert: 19=-60-to-9=-75

30) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-19=-50, 10-16=-20
Concentrated Loads (lb)
Vert: 13=-990(F)
Trapezoidal Loads (plf)
Vert: 19=-50-to-9=-65

31) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-19=-50, 10-16=-20
Concentrated Loads (lb)
Vert: 13=-990(F)
Trapezoidal Loads (plf)
Vert: 19=-50-to-9=-65

32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=12, 1-17=50, 9-10=18, 9-18=33
Concentrated Loads (lb)
Vert: 13=71(F)
Trapezoidal Loads (plf)
Vert: 19=16-to-9=1

33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=-18, 1-17=-33, 9-10=-12, 9-18=-50
Concentrated Loads (lb)
Vert: 13=71(F)
Trapezoidal Loads (plf)
Vert: 19=16-to-9=1

34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=-3, 10-16=-20
Horz: 1-16=24, 1-17=50, 9-10=6, 9-18=33
Concentrated Loads (lb)
Vert: 13=79(F)
Trapezoidal Loads (plf)
Vert: 19=-3-to-9=-18

35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=-3, 10-16=-20
Horz: 1-16=-6, 1-17=-33, 9-10=-24, 9-18=-50
Concentrated Loads (lb)
Vert: 13=79(F)
Trapezoidal Loads (plf)
Vert: 19=-3-to-9=-18

36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=7, 1-17=-33, 9-10=15, 9-18=33
Concentrated Loads (lb)
Vert: 13=71(F)
Trapezoidal Loads (plf)
Vert: 19=16-to-9=1

37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=-15, 1-17=-33, 9-10=-7, 9-18=33
Concentrated Loads (lb)
Vert: 13=71(F)
Trapezoidal Loads (plf)
Vert: 19=16-to-9=1

38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=7, 1-17=-33, 9-10=15, 9-18=33
Concentrated Loads (lb)
Vert: 13=71(F)
Trapezoidal Loads (plf)
Vert: 19=16-to-9=1

39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 6

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=-15, 1-17=-33, 9-10=-7, 9-18=33
Concentrated Loads (lb)
Vert: 13=71(F)
Trapezoidal Loads (plf)
Vert: 19=16-to-9=1

40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=-3, 10-16=-20
Horz: 1-16=19, 1-17=-33, 9-10=4, 9-18=33
Concentrated Loads (lb)
Vert: 13=79(F)
Trapezoidal Loads (plf)
Vert: 19=-3-to-9=-18

41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=-3, 10-16=-20
Horz: 1-16=-4, 1-17=-33, 9-10=-19, 9-18=33
Concentrated Loads (lb)
Vert: 13=79(F)
Trapezoidal Loads (plf)
Vert: 19=-3-to-9=-18

42) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 10-16=-20
Horz: 1-16=18, 1-17=37, 9-10=5, 9-18=25
Concentrated Loads (lb)
Vert: 13=-110(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-3=-43, 3=-43-to-19=-47, 19=-36-to-9=-51

43) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 10-16=-20
Horz: 1-16=-5, 1-17=-25, 9-10=-18, 9-18=-37
Concentrated Loads (lb)
Vert: 13=-110(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-3=-43, 3=-43-to-19=-47, 19=-36-to-9=-51

44) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 10-16=-20
Horz: 1-16=14, 1-17=-25, 9-10=3, 9-18=25
Concentrated Loads (lb)
Vert: 13=-110(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-3=-43, 3=-43-to-19=-47, 19=-36-to-9=-51

45) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 10-16=-20
Horz: 1-16=-3, 1-17=-25, 9-10=-14, 9-18=25
Concentrated Loads (lb)
Vert: 13=-110(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-3=-43, 3=-43-to-19=-47, 19=-36-to-9=-51

46) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=-38, 10-16=-20
Horz: 1-16=18, 1-17=37, 9-10=5, 9-18=25
Concentrated Loads (lb)
Vert: 13=-150(F)
Trapezoidal Loads (plf)
Vert: 19=-38-to-9=-53

47) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=-38, 10-16=-20
Horz: 1-16=-5, 1-17=-25, 9-10=-18, 9-18=-37
Concentrated Loads (lb)
Vert: 13=-150(F)
Trapezoidal Loads (plf)
Vert: 19=-38-to-9=-53

48) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 7

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-19=-38, 10-16=-20
Horz: 1-16=14, 1-17=-25, 9-10=3, 9-18=25
Concentrated Loads (lb)
Vert: 13=-150(F)
Trapezoidal Loads (plf)
Vert: 19=-38-to-9=-53

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

50) Reversal: Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=-12, 10-16=-12
Horz: 1-16=16, 1-17=16
Concentrated Loads (lb)
Vert: 13=47(F)
Trapezoidal Loads (plf)
Vert: 19=-12-to-9=-27

51) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=-12, 10-16=-12
Horz: 9-10=-16, 9-18=-16
Concentrated Loads (lb)
Vert: 13=47(F)
Trapezoidal Loads (plf)
Vert: 19=-12-to-9=-27

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:37 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-uvdh7Vvx02fh9OpEnFJSP0sf1GZEm7Qu0Fmw5nzIHNa

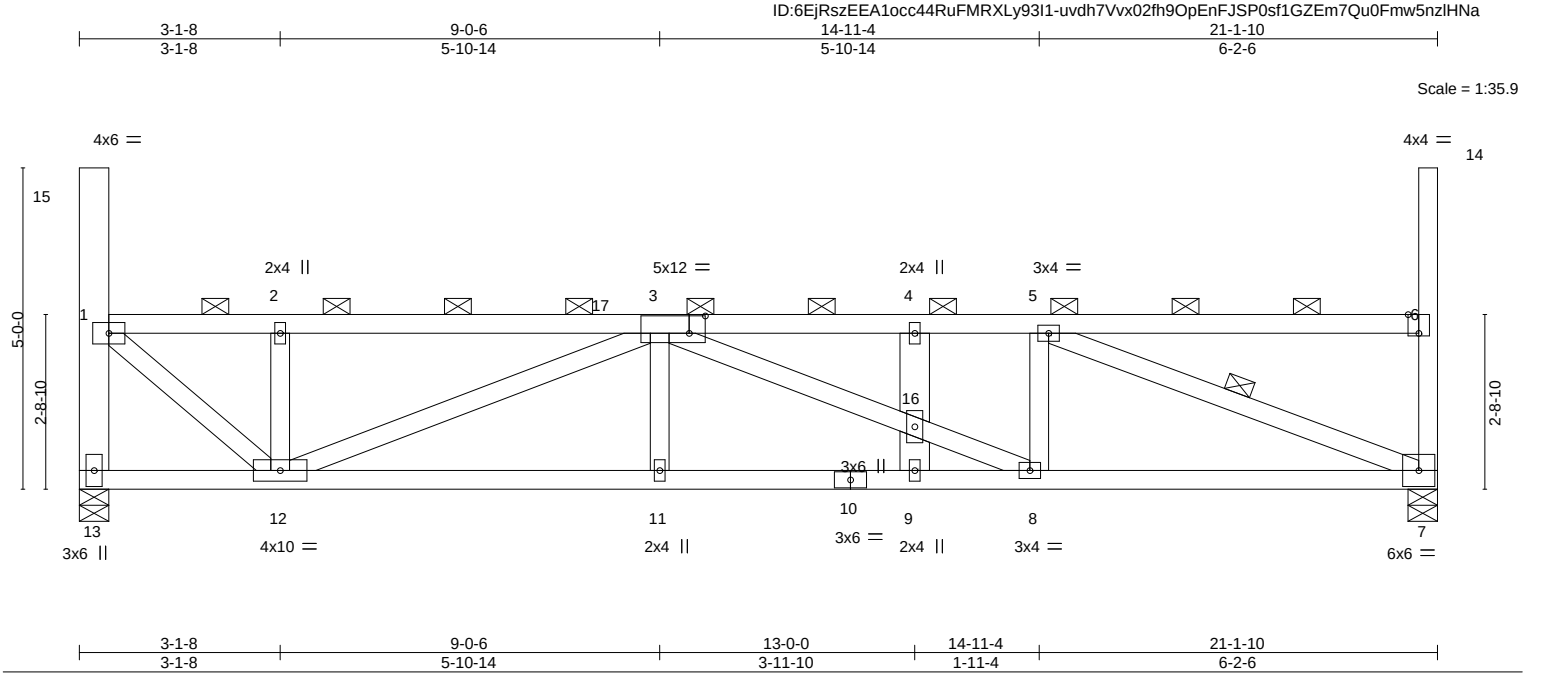


Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [6:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	0.11	9-11	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.18	9-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.68	Horz(CT)	-0.05	13	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 97 lb	FT = 20%

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

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

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

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

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

Uniform Loads (plf)
Vert: 4-17=-58, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-17=-58, 4=-58-to-6=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-60, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-17=-60, 4=-60-to-6=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-50, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-17=-50, 4=-50-to-6=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-48, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-17=-48, 4=-48-to-6=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-17=-20, 7-13=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-17=-20, 4=-20-to-6=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=58, 7-13=-12
Horz: 6-7=35, 6-14=56, 1-13=20, 1-15=92
Trapezoidal Loads (plf)
Vert: 1=43-to-17=58, 4=58-to-6=43

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=58, 7-13=-12
Horz: 6-7=-20, 6-14=-92, 1-13=-35, 1-15=-56
Trapezoidal Loads (plf)
Vert: 1=43-to-17=58, 4=58-to-6=43

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-32, 7-13=-20
Horz: 6-7=-32, 6-14=56, 1-13=-23, 1-15=36
Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-32, 4=-32-to-6=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-32, 7-13=-20
Horz: 6-7=23, 6-14=-36, 1-13=32, 1-15=-56
Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-32, 4=-32-to-6=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=18, 6-14=33, 1-13=12, 1-15=50
Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=-12, 6-14=-50, 1-13=-18, 1-15=-33
Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-3, 7-13=-20
Horz: 6-7=6, 6-14=33, 1-13=24, 1-15=50
Trapezoidal Loads (plf)
Vert: 1=-18-to-17=-3, 4=-3-to-6=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-3, 7-13=-20
Horz: 6-7=-24, 6-14=-50, 1-13=-6, 1-15=-33
Trapezoidal Loads (plf)
Vert: 1=-18-to-17=-3, 4=-3-to-6=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=15, 6-14=33, 1-13=7, 1-15=-33
Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=-7, 6-14=33, 1-13=-15, 1-15=-33
Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=15, 6-14=33, 1-13=7, 1-15=-33
Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=-7, 6-14=33, 1-13=-15, 1-15=-33
Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-3, 7-13=-20
Horz: 6-7=4, 6-14=33, 1-13=19, 1-15=-33
Trapezoidal Loads (plf)
Vert: 1=-18-to-17=-3, 4=-3-to-6=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-3, 7-13=-20
Horz: 6-7=-19, 6-14=33, 1-13=-4, 1-15=-33
Trapezoidal Loads (plf)
Vert: 1=-18-to-17=-3, 4=-3-to-6=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-17=-20, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-17=-20, 4=-20-to-6=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=5, 6-14=25, 1-13=18, 1-15=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-17=-36, 4=-36-to-6=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=-18, 6-14=-37, 1-13=-5, 1-15=-25
Trapezoidal Loads (plf)
Vert: 1=-51-to-17=-36, 4=-36-to-6=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=3, 6-14=25, 1-13=14, 1-15=-25
Trapezoidal Loads (plf)
Vert: 1=-51-to-17=-36, 4=-36-to-6=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=-14, 6-14=25, 1-13=-3, 1-15=-25
Trapezoidal Loads (plf)
Vert: 1=-51-to-17=-36, 4=-36-to-6=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-38, 7-13=-20
Horz: 6-7=5, 6-14=25, 1-13=18, 1-15=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-17=-38, 4=-38-to-6=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-38, 7-13=-20
Horz: 6-7=-18, 6-14=-37, 1-13=-5, 1-15=-25
Trapezoidal Loads (plf)
Vert: 1=-53-to-17=-38, 4=-38-to-6=-53

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-38, 7-13=-20
Horz: 6-7=3, 6-14=25, 1-13=14, 1-15=-25
Trapezoidal Loads (plf)
Vert: 1=-53-to-17=-38, 4=-38-to-6=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-38, 7-13=-20
Horz: 6-7=-14, 6-14=25, 1-13=-3, 1-15=-25
Trapezoidal Loads (plf)
Vert: 1=-53-to-17=-38, 4=-38-to-6=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-60, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-17=-60, 4=-60-to-6=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-28, 7-13=-12
Horz: 6-7=-16, 6-14=33, 1-13=-16, 1-15=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-17=-28, 4=-28-to-6=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=4, 7-13=-12
Horz: 6-7=16, 6-14=33, 1-13=16, 1-15=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-17=4, 4=4-to-6=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-60, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-17=-60, 4=-60-to-6=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-60, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-17=-60, 4=-60-to-6=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-50, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-17=-50, 4=-50-to-6=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-50, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-17=-50, 4=-50-to-6=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:38 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-N6B3LrvZnLnYnYOQKzqhxEOr3gwbVam2FvVUeDzIHNZ

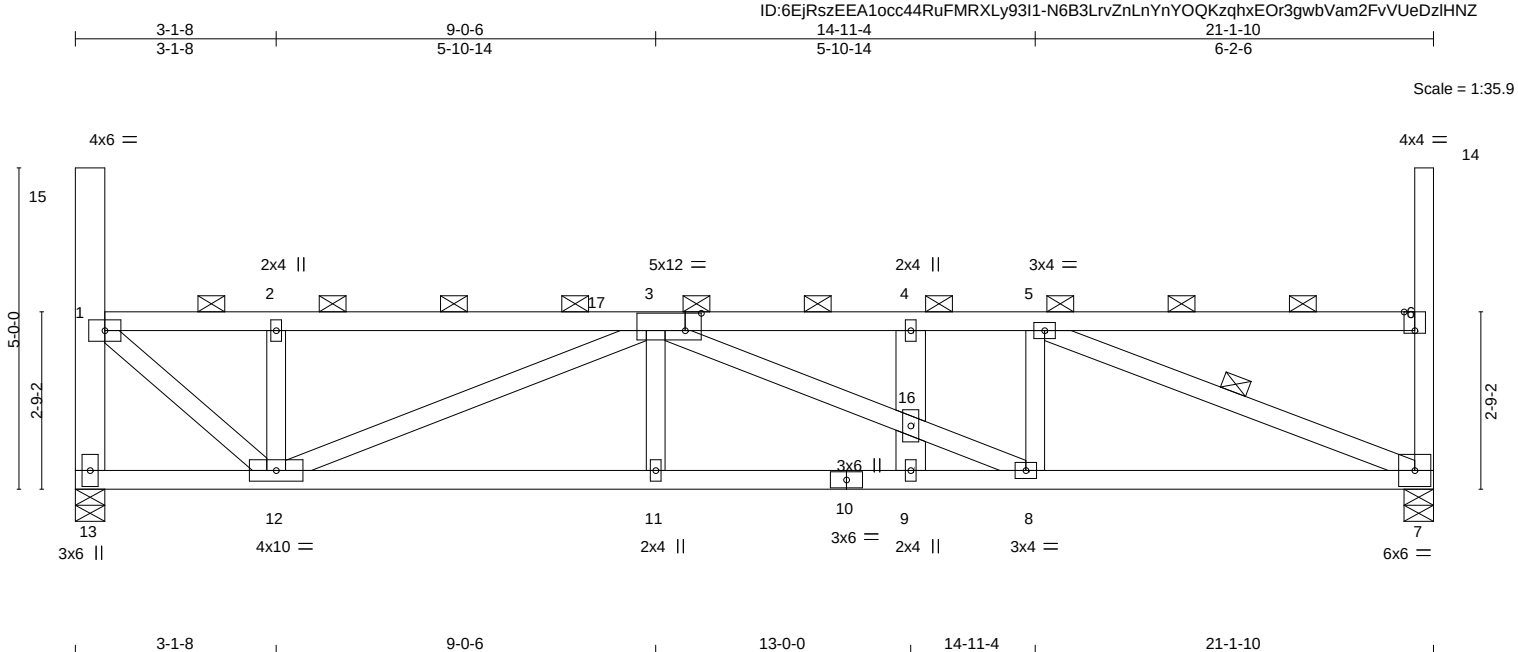


Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [6:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.11	9-11	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.18	9-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.68	Horz(CT)	-0.05	13	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 97 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (4-2-4 max.): 6-14, 1-6, 1-15, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-5-9 oc bracing.
WEBS 1 Row at midpt 5-7

REACTIONS. (size) 7=0-5-8, 13=0-5-8
Max Horz 7=-273(LC 12)
Max Uplift 7=-26(LC 11), 13=-26(LC 10)
Max Grav 7=890(LC 2), 13=889(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-962/626, 2-3=-962/626, 3-4=-1600/877, 4-5=-1600/877, 5-6=-307/259, 1-13=-871/496
BOT CHORD 11-12=-1126/1847, 9-11=-1126/1847, 8-9=-1126/1847, 7-8=-1145/1600
WEBS 5-7=-1658/1008, 5-8=-99/320, 3-16=-266/350, 8-16=-276/359, 3-12=-959/709, 2-12=-344/263, 1-12=-714/1252

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=15, 6-14=33, 1-13=7, 1-15=-33
Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=-7, 6-14=33, 1-13=-15, 1-15=-33
Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=15, 6-14=33, 1-13=7, 1-15=-33
Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=-7, 6-14=33, 1-13=-15, 1-15=-33
Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-3, 7-13=-20
Horz: 6-7=4, 6-14=33, 1-13=19, 1-15=-33
Trapezoidal Loads (plf)
Vert: 1=-18-to-17=-3, 4=-3-to-6=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-3, 7-13=-20
Horz: 6-7=-19, 6-14=33, 1-13=-4, 1-15=-33
Trapezoidal Loads (plf)
Vert: 1=-18-to-17=-3, 4=-3-to-6=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-17=-20, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-17=-20, 4=-20-to-6=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=5, 6-14=25, 1-13=18, 1-15=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-17=-36, 4=-36-to-6=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=-18, 6-14=-37, 1-13=-5, 1-15=-25
Trapezoidal Loads (plf)
Vert: 1=-51-to-17=-36, 4=-36-to-6=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=3, 6-14=25, 1-13=14, 1-15=-25
Trapezoidal Loads (plf)
Vert: 1=-51-to-17=-36, 4=-36-to-6=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=-14, 6-14=25, 1-13=-3, 1-15=-25
Trapezoidal Loads (plf)
Vert: 1=-51-to-17=-36, 4=-36-to-6=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-38, 7-13=-20
Horz: 6-7=5, 6-14=25, 1-13=18, 1-15=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-17=-38, 4=-38-to-6=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-38, 7-13=-20
Horz: 6-7=-18, 6-14=-37, 1-13=-5, 1-15=-25
Trapezoidal Loads (plf)
Vert: 1=-53-to-17=-38, 4=-38-to-6=-53

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-38, 7-13=-20
Horz: 6-7=3, 6-14=25, 1-13=14, 1-15=-25
Trapezoidal Loads (plf)
Vert: 1=-53-to-17=-38, 4=-38-to-6=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-38, 7-13=-20
Horz: 6-7=-14, 6-14=25, 1-13=-3, 1-15=-25
Trapezoidal Loads (plf)
Vert: 1=-53-to-17=-38, 4=-38-to-6=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-60, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-17=-60, 4=-60-to-6=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-28, 7-13=-12
Horz: 6-7=-16, 6-14=33, 1-13=-16, 1-15=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-17=-28, 4=-28-to-6=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=4, 7-13=-12
Horz: 6-7=16, 6-14=33, 1-13=16, 1-15=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-17=4, 4=4-to-6=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-60, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-17=-60, 4=-60-to-6=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-60, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-17=-60, 4=-60-to-6=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-50, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-17=-50, 4=-50-to-6=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-50, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-17=-50, 4=-50-to-6=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:40 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-JUlqmXxpJz1G0rXpSOs91fUBsTbdzTTLiD_ai6zlHNX

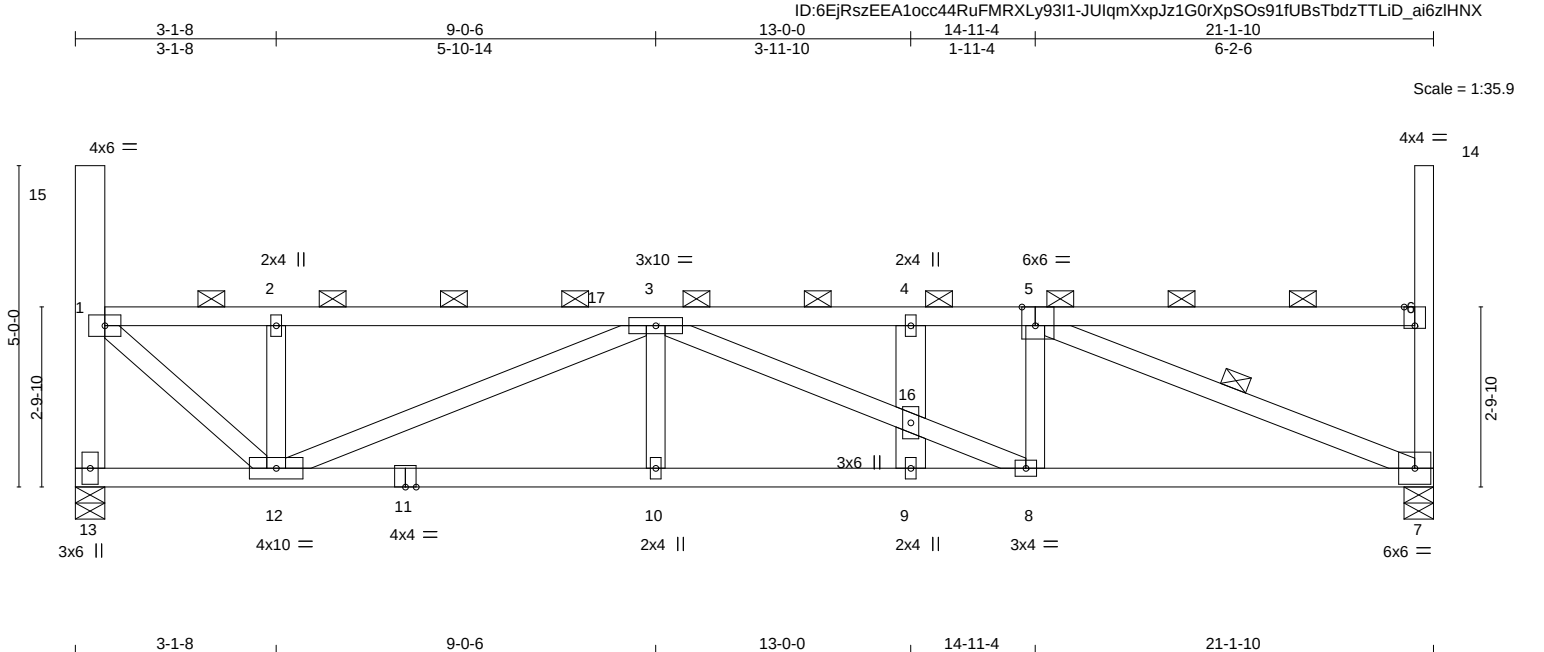


Plate Offsets (X,Y)-- [5:0-2-8,Edge], [6:0-2-0,Edge]

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

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

BRACING-
TOP CHORD 2-0-0 oc purlins (4-0-8 max.): 6-14, 1-6, 1-15, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-5 oc bracing.
WEBS 1 Row at midpt 5-7

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

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

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

February 15,2022

LOAD CASE(S)

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

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

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

Concentrated Loads (lb)
Vert: 9=-70(B)

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=16, 7-13=-12
Horz: 6-7=15, 6-14=33, 1-13=7, 1-15=-33
Concentrated Loads (lb)
Vert: 9=-70(B)

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=16, 7-13=-12
Horz: 6-7=-7, 6-14=33, 1-13=-15, 1-15=-33
Concentrated Loads (lb)
Vert: 9=-70(B)

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=16, 7-13=-12
Horz: 6-7=15, 6-14=33, 1-13=7, 1-15=-33
Concentrated Loads (lb)
Vert: 9=-70(B)

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=16, 7-13=-12
Horz: 6-7=-7, 6-14=33, 1-13=-15, 1-15=-33
Concentrated Loads (lb)
Vert: 9=-70(B)

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-3, 7-13=-20
Horz: 6-7=4, 6-14=33, 1-13=19, 1-15=-33
Concentrated Loads (lb)
Vert: 9=-70(B)

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-3, 7-13=-20
Horz: 6-7=-19, 6-14=33, 1-13=-4, 1-15=-33
Concentrated Loads (lb)
Vert: 9=-70(B)

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-6=-20, 7-13=-20
Concentrated Loads (lb)
Vert: 9=-70(B)

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=5, 6-14=25, 1-13=18, 1-15=37
Concentrated Loads (lb)
Vert: 9=-70(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=-18, 6-14=-37, 1-13=-5, 1-15=-25
Concentrated Loads (lb)
Vert: 9=-70(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=3, 6-14=25, 1-13=14, 1-15=-25
Concentrated Loads (lb)
Vert: 9=-70(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=-14, 6-14=25, 1-13=-3, 1-15=-25
Concentrated Loads (lb)
Vert: 9=-70(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-36, 4=-36-to-6=-47

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-38, 7-13=-20
Horz: 6-7=5, 6-14=25, 1-13=18, 1-15=37
Concentrated Loads (lb)
Vert: 9=-70(B)

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-38, 7-13=-20
Horz: 6-7=-18, 6-14=-37, 1-13=-5, 1-15=-25
Concentrated Loads (lb)
Vert: 9=-70(B)

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-38, 7-13=-20
Horz: 6-7=3, 6-14=25, 1-13=14, 1-15=-25
Concentrated Loads (lb)
Vert: 9=-70(B)

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-38, 7-13=-20
Horz: 6-7=-14, 6-14=25, 1-13=-3, 1-15=-25
Concentrated Loads (lb)
Vert: 9=-70(B)

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-60, 7-13=-20
Concentrated Loads (lb)
Vert: 9=-70(B)
Trapezoidal Loads (plf)
Vert: 1=-75-to-17=-60, 4=-60-to-6=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-28, 7-13=-12
Horz: 6-7=-16, 6-14=33, 1-13=-16, 1-15=33
Concentrated Loads (lb)
Vert: 9=-70(B)

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=4, 7-13=-12
Horz: 6-7=16, 6-14=33, 1-13=16, 1-15=33
Concentrated Loads (lb)
Vert: 9=-70(B)

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 7-13=-20
Concentrated Loads (lb)
Vert: 9=-70(B)

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 7-13=-20
Concentrated Loads (lb)
Vert: 9=-70(B)

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-50, 7-13=-20
Concentrated Loads (lb)
Vert: 9=-70(B)

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-50, 7-13=-20
Concentrated Loads (lb)
Vert: 9=-70(B)

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:42 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-FtQaADy3qaH_G9hBZpud64ZVXHEPQI0eAXThn_zIHNV

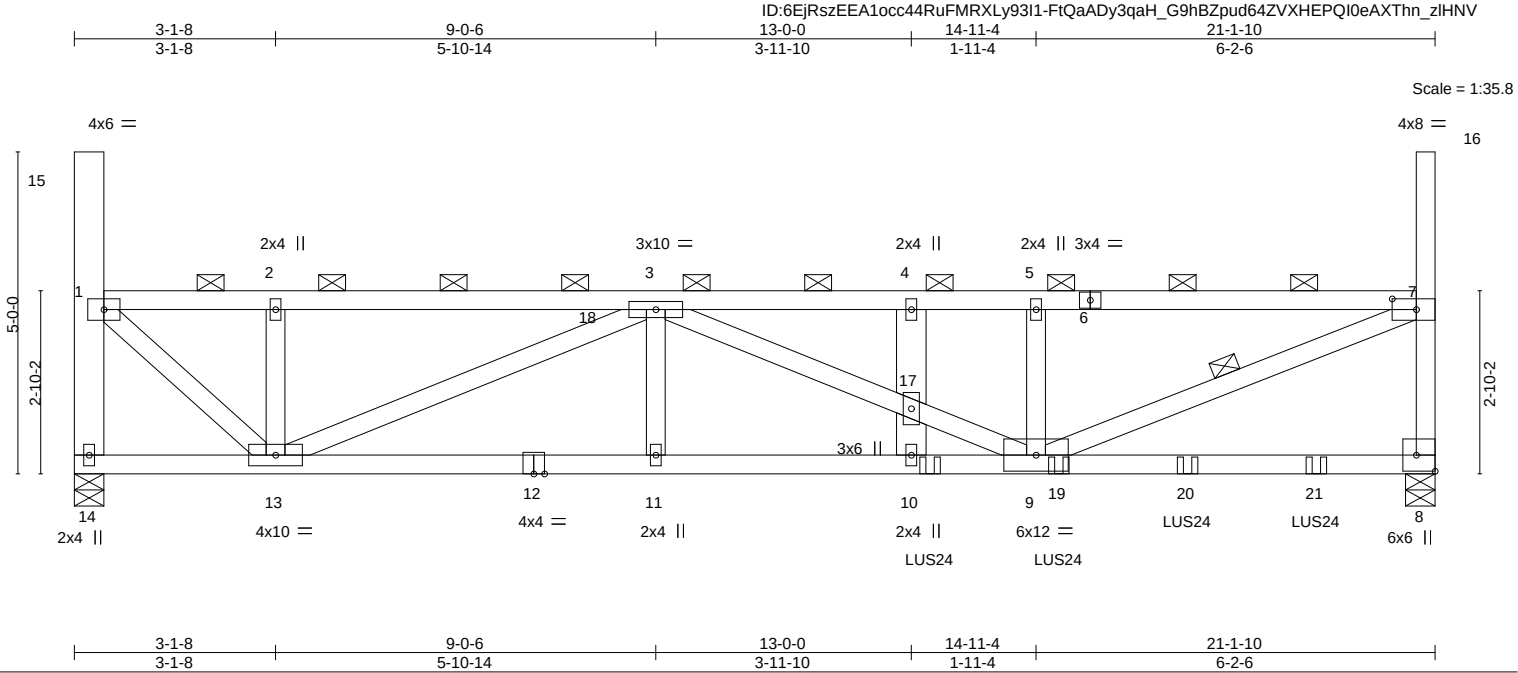


Plate Offsets (X,Y)-- [7:0-4-8,0-2-0], [8:Edge,0-3-8]

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

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2 *Except* 8-12: 2x4 SPF 2100F 1.8E
WEBS	2x4 SPF No.2 *Except* 14-15,10-17,4-17: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD	2-0-0 oc purlins (3-4-9 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-8-12 oc bracing.
WEBS	1 Row at midpt 7-9

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-946/330, 1-2=-1037/446, 2-3=-1037/446, 3-4=-2473/1552, 4-5=-2473/1552, 5-7=-2473/1552, 7-8=-1122/666
BOT CHORD 13-14=-293/304, 11-13=-1062/2229, 10-11=-1062/2229, 9-10=-1062/2229
WEBS 1-13=-475/1340, 2-13=-340/93, 3-13=-1385/750, 3-17=-765/726, 9-17=-774/721, 5-9=-402/104, 7-9=-1550/2555

NOTES-

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

Continued on page 2

February 15,2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

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

LOAD CASE(S) Standard

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

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-7=16, 8-14=-12
Horz: 1-14=-15, 1-15=-33, 7-8=-7, 7-16=33
Concentrated Loads (lb)
Vert: 10=289(F) 4=-70(F) 19=289(F) 20=289(F) 21=289(F)

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-3, 8-14=-20
Horz: 1-14=19, 1-15=-33, 7-8=4, 7-16=33
Concentrated Loads (lb)
Vert: 10=297(F) 4=-70(F) 19=297(F) 20=297(F) 21=297(F)

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-3, 8-14=-20
Horz: 1-14=-4, 1-15=-33, 7-8=-19, 7-16=33
Concentrated Loads (lb)
Vert: 10=297(F) 4=-70(F) 19=297(F) 20=297(F) 21=297(F)

16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-7=-20, 8-14=-20
Concentrated Loads (lb)
Vert: 10=-18(F) 4=-70(F) 19=-18(F) 20=-18(F) 21=-18(F)

17) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
Concentrated Loads (lb)
Vert: 10=207(F) 4=-70(F) 19=207(F) 20=207(F) 21=207(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

18) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
Concentrated Loads (lb)
Vert: 10=207(F) 4=-70(F) 19=207(F) 20=207(F) 21=207(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
Concentrated Loads (lb)
Vert: 10=207(F) 4=-70(F) 19=207(F) 20=207(F) 21=207(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
Concentrated Loads (lb)
Vert: 10=207(F) 4=-70(F) 19=207(F) 20=207(F) 21=207(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-38, 8-14=-20
Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
Concentrated Loads (lb)
Vert: 10=201(F) 4=-70(F) 19=201(F) 20=201(F) 21=201(F)

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-38, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
Concentrated Loads (lb)
Vert: 10=201(F) 4=-70(F) 19=201(F) 20=201(F) 21=201(F)

23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-38, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
Concentrated Loads (lb)
Vert: 10=201(F) 4=-70(F) 19=201(F) 20=201(F) 21=201(F)

24) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-7=-38, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
Concentrated Loads (lb)
Vert: 10=201(F) 4=-70(F) 19=201(F) 20=201(F) 21=201(F)

25) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-60, 8-14=-20
Concentrated Loads (lb)
Vert: 10=-56(F) 4=-70(F) 19=-56(F) 20=-56(F) 21=-56(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-18=-60, 4=-60-to-7=-75

26) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-12, 8-14=-12
Horz: 1-14=16, 1-15=16
Concentrated Loads (lb)
Vert: 10=283(F) 4=-70(F) 19=283(F) 20=283(F) 21=283(F)

27) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-12, 8-14=-12
Horz: 7-8=-16, 7-16=-16
Concentrated Loads (lb)
Vert: 10=283(F) 4=-70(F) 19=283(F) 20=283(F) 21=283(F)

28) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 8-14=-20
Concentrated Loads (lb)
Vert: 10=-56(F) 4=-70(F) 19=-56(F) 20=-56(F) 21=-56(F)

29) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 8-14=-20
Concentrated Loads (lb)
Vert: 10=-56(F) 4=-70(F) 19=-56(F) 20=-56(F) 21=-56(F)

30) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-50, 8-14=-20
Concentrated Loads (lb)
Vert: 10=-47(F) 4=-70(F) 19=-47(F) 20=-47(F) 21=-47(F)

31) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-50, 8-14=-20
Concentrated Loads (lb)
Vert: 10=-47(F) 4=-70(F) 19=-47(F) 20=-47(F) 21=-47(F)

32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=16, 8-14=-12
Horz: 1-14=12, 1-15=50, 7-8=18, 7-16=33
Concentrated Loads (lb)
Vert: 10=-295(F) 4=-70(F) 19=-295(F) 20=-295(F) 21=-295(F)

33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=16, 8-14=-12
Horz: 1-14=-18, 1-15=-33, 7-8=-12, 7-16=-50
Concentrated Loads (lb)
Vert: 10=-295(F) 4=-70(F) 19=-295(F) 20=-295(F) 21=-295(F)

34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-3, 8-14=-20
Horz: 1-14=24, 1-15=50, 7-8=6, 7-16=33
Concentrated Loads (lb)
Vert: 10=-287(F) 4=-70(F) 19=-287(F) 20=-287(F) 21=-287(F)

35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-3, 8-14=-20
Horz: 1-14=-6, 1-15=-33, 7-8=-24, 7-16=-50
Concentrated Loads (lb)
Vert: 10=-287(F) 4=-70(F) 19=-287(F) 20=-287(F) 21=-287(F)

36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=16, 8-14=-12
Horz: 1-14=7, 1-15=-33, 7-8=15, 7-16=33
Concentrated Loads (lb)
Vert: 10=-295(F) 4=-70(F) 19=-295(F) 20=-295(F) 21=-295(F)

37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 5

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-7=16, 8-14=-12
Horz: 1-14=-15, 1-15=-33, 7-8=-7, 7-16=33
Concentrated Loads (lb)
Vert: 10=-295(F) 4=-70(F) 19=-295(F) 20=-295(F) 21=-295(F)

38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=16, 8-14=-12
Horz: 1-14=7, 1-15=-33, 7-8=15, 7-16=33
Concentrated Loads (lb)
Vert: 10=-295(F) 4=-70(F) 19=-295(F) 20=-295(F) 21=-295(F)

39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=16, 8-14=-12
Horz: 1-14=-15, 1-15=-33, 7-8=-7, 7-16=33
Concentrated Loads (lb)
Vert: 10=-295(F) 4=-70(F) 19=-295(F) 20=-295(F) 21=-295(F)

40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-3, 8-14=-20
Horz: 1-14=19, 1-15=-33, 7-8=4, 7-16=33
Concentrated Loads (lb)
Vert: 10=-287(F) 4=-70(F) 19=-287(F) 20=-287(F) 21=-287(F)

41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-3, 8-14=-20
Horz: 1-14=-4, 1-15=-33, 7-8=-19, 7-16=33
Concentrated Loads (lb)
Vert: 10=-287(F) 4=-70(F) 19=-287(F) 20=-287(F) 21=-287(F)

42) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
Concentrated Loads (lb)
Vert: 10=-235(F) 4=-70(F) 19=-235(F) 20=-235(F) 21=-235(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

43) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
Concentrated Loads (lb)
Vert: 10=-235(F) 4=-70(F) 19=-235(F) 20=-235(F) 21=-235(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

44) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
Concentrated Loads (lb)
Vert: 10=-235(F) 4=-70(F) 19=-235(F) 20=-235(F) 21=-235(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

45) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
Concentrated Loads (lb)
Vert: 10=-235(F) 4=-70(F) 19=-235(F) 20=-235(F) 21=-235(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

46) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-38, 8-14=-20
Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
Concentrated Loads (lb)
Vert: 10=-241(F) 4=-70(F) 19=-241(F) 20=-241(F) 21=-241(F)

47) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-38, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
Concentrated Loads (lb)
Vert: 10=-241(F) 4=-70(F) 19=-241(F) 20=-241(F) 21=-241(F)

Continued on page 6

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

48) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-38, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
Concentrated Loads (lb)
Vert: 10=-241(F) 4=-70(F) 19=-241(F) 20=-241(F) 21=-241(F)

49) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-38, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
Concentrated Loads (lb)
Vert: 10=-241(F) 4=-70(F) 19=-241(F) 20=-241(F) 21=-241(F)

50) Reversal: Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-12, 8-14=-12
Horz: 1-14=16, 1-15=16
Concentrated Loads (lb)
Vert: 10=-290(F) 4=-70(F) 19=-290(F) 20=-290(F) 21=-290(F)

51) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-12, 8-14=-12
Horz: 7-8=-16, 7-16=-16
Concentrated Loads (lb)
Vert: 10=-290(F) 4=-70(F) 19=-290(F) 20=-290(F) 21=-290(F)

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:45 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-fS6ipE?y7VfZ7dQmFxSKkiB1EULddkr4sViLNJzlHNS

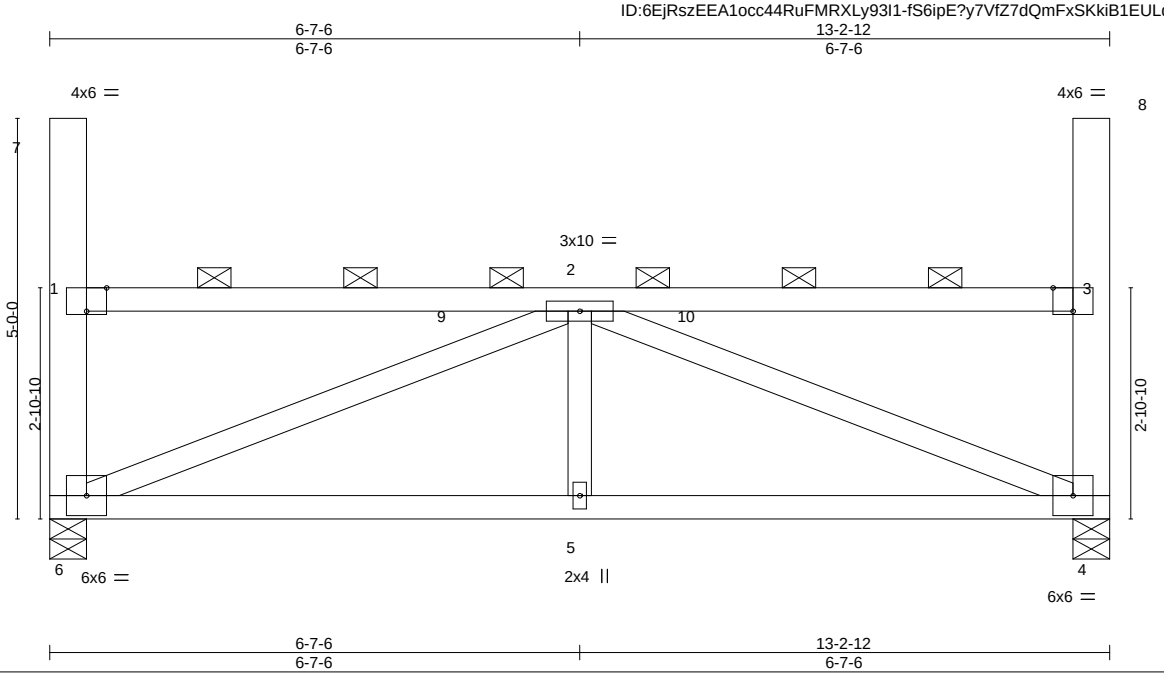


Plate Offsets (X,Y)-- [1:0-3-0,Edge], [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.04	4-5	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.08	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.02	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 63 lb	FT = 20%

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

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

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=-267(LC 10)
Max Uplift 6=-91(LC 10), 4=-91(LC 11)
Max Grav 6=570(LC 29), 4=570(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-332/286, 2-3=-331/285
BOT CHORD 5-6=-792/819, 4-5=-792/819
WEBS 2-6=-816/891, 2-5=0/284, 2-4=-815/886

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard Except:

Trapezoidal Loads (plf)
Vert: 1=-73-to-9=-64, 9=-64-to-10=-63, 10=-63-to-3=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-9=-53, 9=-64-to-10=-55, 10=-55-to-3=-48

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-40, 9=-51-to-10=-43, 10=-43-to-3=-36

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-40, 9=-51-to-10=-43, 10=-43-to-3=-36

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-40, 9=-51-to-10=-43, 10=-43-to-3=-36

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-40, 9=-51-to-10=-43, 10=-43-to-3=-36

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-66, 9=-66-to-10=-66, 10=-66-to-3=-75

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:48 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-41nrRG1qQQ18_49Lw3?1LLpXmiM9q5hWYTw?_ezIHNP

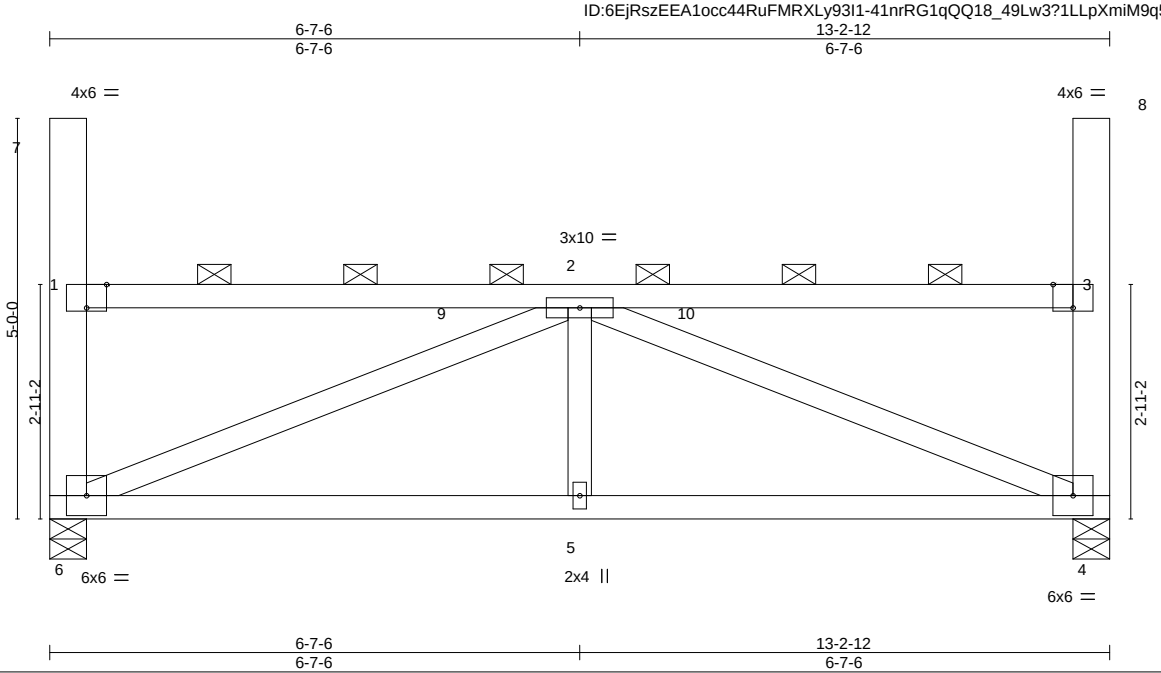


Plate Offsets (X,Y)-- [1:0-3-0,Edge], [3:0-3-0,Edge]

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

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

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

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-331/273, 2-3=-330/272
BOT CHORD 5-6=-712/807, 4-5=-712/807
WEBS 2-6=-805/808, 2-5=0/283, 2-4=-805/803

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

Trapezoidal Loads (plf)
Vert: 1=-73-to-9=-64, 9=-64-to-10=-63, 10=-63-to-3=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-66, 9=-66-to-10=-66, 10=-66-to-3=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-9=-56, 9=-56-to-10=-56, 10=-56-to-3=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-9=-54, 9=-54-to-10=-54, 10=-54-to-3=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-6=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-9=-26, 9=-26-to-10=-26, 10=-26-to-3=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=22, 1-7=108, 3-4=37, 3-8=61
Trapezoidal Loads (plf)
Vert: 1=57-to-9=66, 9=66-to-10=66, 10=66-to-3=57

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=-37, 1-7=-61, 3-4=-22, 3-8=-108
Trapezoidal Loads (plf)
Vert: 1=57-to-9=66, 9=66-to-10=66, 10=66-to-3=57

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-26, 1-7=40, 3-4=-34, 3-8=61
Trapezoidal Loads (plf)
Vert: 1=-48-to-9=-39, 9=-39-to-10=-39, 10=-39-to-3=-48

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=34, 1-7=-61, 3-4=26, 3-8=-40
Trapezoidal Loads (plf)
Vert: 1=-48-to-9=-39, 9=-39-to-10=-39, 10=-39-to-3=-48

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=12, 1-7=50, 3-4=18, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=11, 9=11-to-10=11, 10=11-to-3=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=-18, 1-7=-33, 3-4=-12, 3-8=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-9=11, 9=11-to-10=11, 10=11-to-3=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=24, 1-7=50, 3-4=6, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-9=-9, 9=-9-to-10=-9, 10=-9-to-3=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-6, 1-7=-33, 3-4=-24, 3-8=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-9=-9, 9=-9-to-10=-9, 10=-9-to-3=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=7, 1-7=-33, 3-4=15, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=11, 9=11-to-10=11, 10=11-to-3=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=-15, 1-7=-33, 3-4=-7, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=11, 9=11-to-10=11, 10=11-to-3=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=7, 1-7=-33, 3-4=15, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=11, 9=11-to-10=11, 10=11-to-3=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=-15, 1-7=-33, 3-4=-7, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=11, 9=11-to-10=11, 10=11-to-3=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=19, 1-7=-33, 3-4=4, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-9=-9, 9=-9-to-10=-9, 10=-9-to-3=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-4, 1-7=-33, 3-4=-19, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-9=-9, 9=-9-to-10=-9, 10=-9-to-3=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-9=-26, 9=-26-to-10=-26, 10=-26-to-3=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-42, 9=-42-to-10=-41, 10=-41-to-3=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-42, 9=-42-to-10=-41, 10=-41-to-3=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-42, 9=-42-to-10=-41, 10=-41-to-3=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-42, 9=-42-to-10=-41, 10=-41-to-3=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-9=-43, 9=-43-to-10=-43, 10=-43-to-3=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-9=-43, 9=-43-to-10=-43, 10=-43-to-3=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

Trapezoidal Loads (plf)
Vert: 1=-53-to-9=-43, 9=-43-to-10=-43, 10=-43-to-3=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-9=-43, 9=-43-to-10=-43, 10=-43-to-3=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-66, 9=-66-to-10=-66, 10=-66-to-3=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=-16, 1-7=33, 3-4=-16, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-9=-34, 9=-34-to-10=-34, 10=-34-to-3=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=16, 1-7=33, 3-4=16, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-9=-1, 9=-1-to-10=-1, 10=-1-to-3=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-66, 9=-66-to-10=-66, 10=-66-to-3=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-66, 9=-66-to-10=-66, 10=-66-to-3=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-9=-56, 9=-56-to-10=-56, 10=-56-to-3=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-9=-56, 9=-56-to-10=-56, 10=-56-to-3=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:49 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-YDLDfc2SBkA_cEjXUnWGuYMiF5icZY0fn7gZW4zlHNO

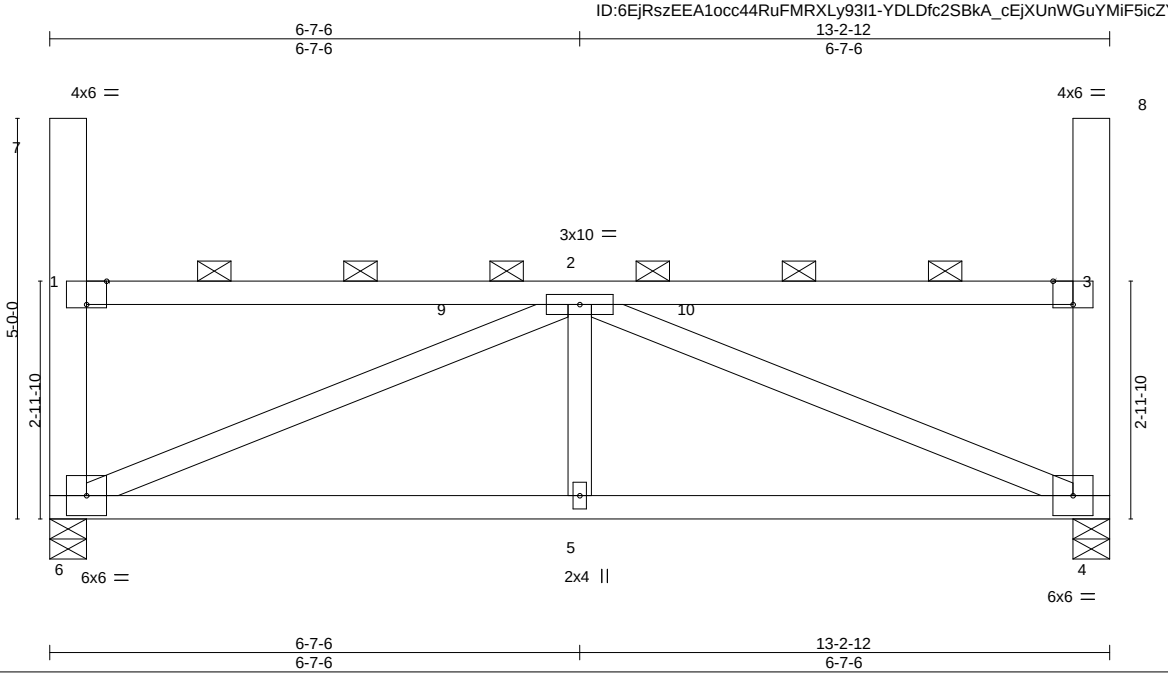


Plate Offsets (X,Y)-- [1:0-3-0,Edge], [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.04	5-6	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.08	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.02	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 63 lb	FT = 20%

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

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

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=-262(LC 10)
Max Uplift 6=-90(LC 10), 4=-90(LC 11)
Max Grav 6=570(LC 29), 4=570(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-315/275, 2-3=-314/274
BOT CHORD 5-6=-773/794, 4-5=-773/794
WEBS 2-6=-795/864, 2-5=0/284, 2-4=-795/859

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-9=-64, 9=-64-to-10=-63, 10=-63-to-3=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-9=-53, 9=-53-to-10=-53, 10=-53-to-3=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-40, 9=-40-to-10=-40, 10=-40-to-3=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-40, 9=-40-to-10=-40, 10=-40-to-3=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-40, 9=-40-to-10=-40, 10=-40-to-3=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-40, 9=-40-to-10=-40, 10=-40-to-3=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-66, 9=-66-to-10=-66, 10=-66-to-3=-75

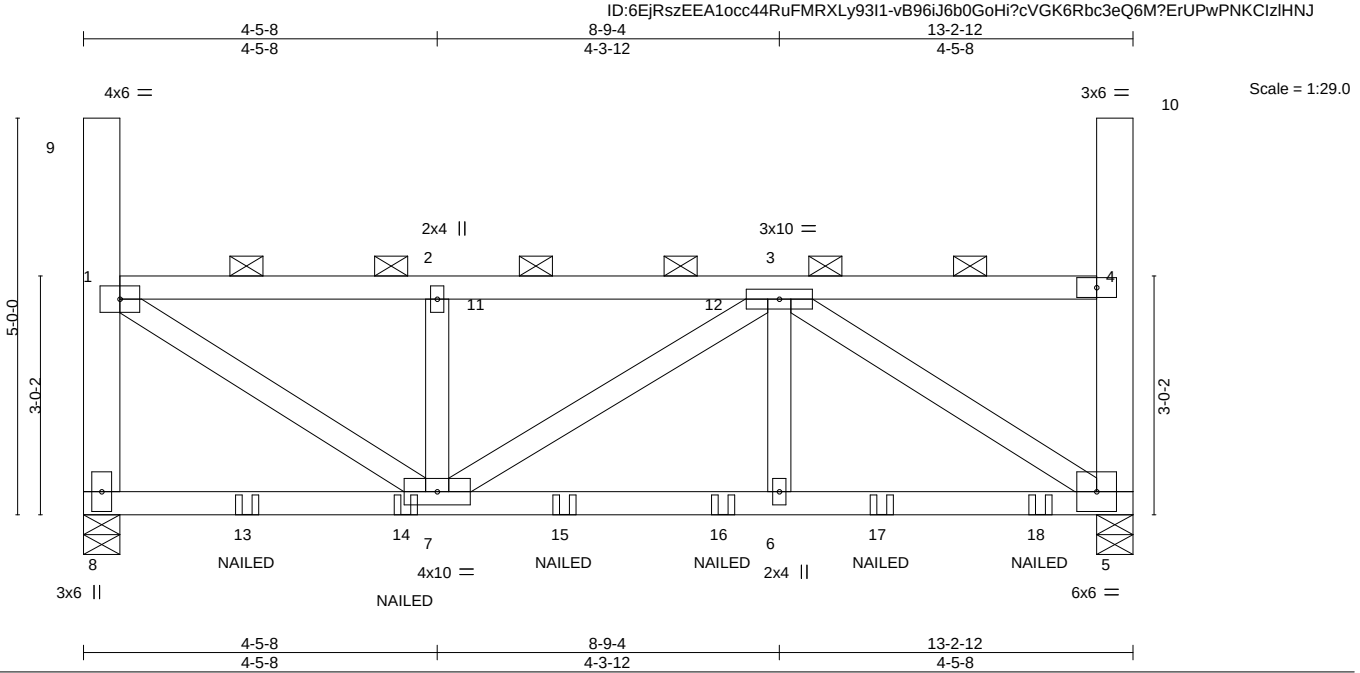
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:54 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-vB96iJ6b0GoHi?cVGK6Rbc3eQ6M?ErUPwPNKCIzIHNJ



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

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

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

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-828/558, 1-2=-1188/854, 2-3=-1188/854
BOT CHORD 7-8=-299/311, 6-7=-820/1186, 5-6=-820/1186
WEBS 1-7=-959/1362, 2-7=-296/82, 3-6=-394/564, 3-5=-1361/957

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 646 lb uplift at joint 8 and 729 lb uplift at joint 5.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 17, 18, 19, 20, 25, 42, 43, 44, 45 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 13=-92(F) 14=-92(F) 15=-92(F) 16=-92(F) 17=-92(F) 18=-92(F)
Trapezoidal Loads (plf)
Vert: 1=-73-to-11=-64, 11=-64-to-12=-63, 12=-63-to-4=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-8=-20
Concentrated Loads (lb)
Vert: 13=-78(F) 14=-78(F) 15=-78(F) 16=-78(F) 17=-78(F) 18=-78(F)
Trapezoidal Loads (plf)
Vert: 1=-60-to-11=-53, 11=-53-to-12=-53, 12=-53-to-4=-60

17) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=18, 1-9=37, 4-5=5, 4-10=25
Concentrated Loads (lb)
Vert: 13=130(F) 14=130(F) 15=130(F) 16=130(F) 17=130(F) 18=130(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-11=-40, 11=-40-to-12=-40, 12=-40-to-4=-47

18) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=-5, 1-9=-25, 4-5=-18, 4-10=-37
Concentrated Loads (lb)
Vert: 13=130(F) 14=130(F) 15=130(F) 16=130(F) 17=130(F) 18=130(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-11=-40, 11=-40-to-12=-40, 12=-40-to-4=-47

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=14, 1-9=-25, 4-5=3, 4-10=25
Concentrated Loads (lb)
Vert: 13=130(F) 14=130(F) 15=130(F) 16=130(F) 17=130(F) 18=130(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-11=-40, 11=-40-to-12=-40, 12=-40-to-4=-47

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=-3, 1-9=-25, 4-5=-14, 4-10=25
Concentrated Loads (lb)
Vert: 13=130(F) 14=130(F) 15=130(F) 16=130(F) 17=130(F) 18=130(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-11=-40, 11=-40-to-12=-40, 12=-40-to-4=-47

25) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-8=-20
Concentrated Loads (lb)
Vert: 13=-92(F) 14=-92(F) 15=-92(F) 16=-92(F) 17=-92(F) 18=-92(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-11=-66, 11=-66-to-12=-66, 12=-66-to-4=-75

42) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=18, 1-9=37, 4-5=5, 4-10=25
Concentrated Loads (lb)
Vert: 13=-189(F) 14=-189(F) 15=-189(F) 16=-189(F) 17=-189(F) 18=-189(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-11=-40, 11=-40-to-12=-40, 12=-40-to-4=-47

43) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=-5, 1-9=-25, 4-5=-18, 4-10=-37
Concentrated Loads (lb)
Vert: 13=-189(F) 14=-189(F) 15=-189(F) 16=-189(F) 17=-189(F) 18=-189(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-11=-40, 11=-40-to-12=-40, 12=-40-to-4=-47

44) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=14, 1-9=-25, 4-5=3, 4-10=25
Concentrated Loads (lb)
Vert: 13=-189(F) 14=-189(F) 15=-189(F) 16=-189(F) 17=-189(F) 18=-189(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-11=-40, 11=-40-to-12=-40, 12=-40-to-4=-47

45) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 5-8=-20

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

Concentrated Loads (lb)

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

Trapezoidal Loads (plf)

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

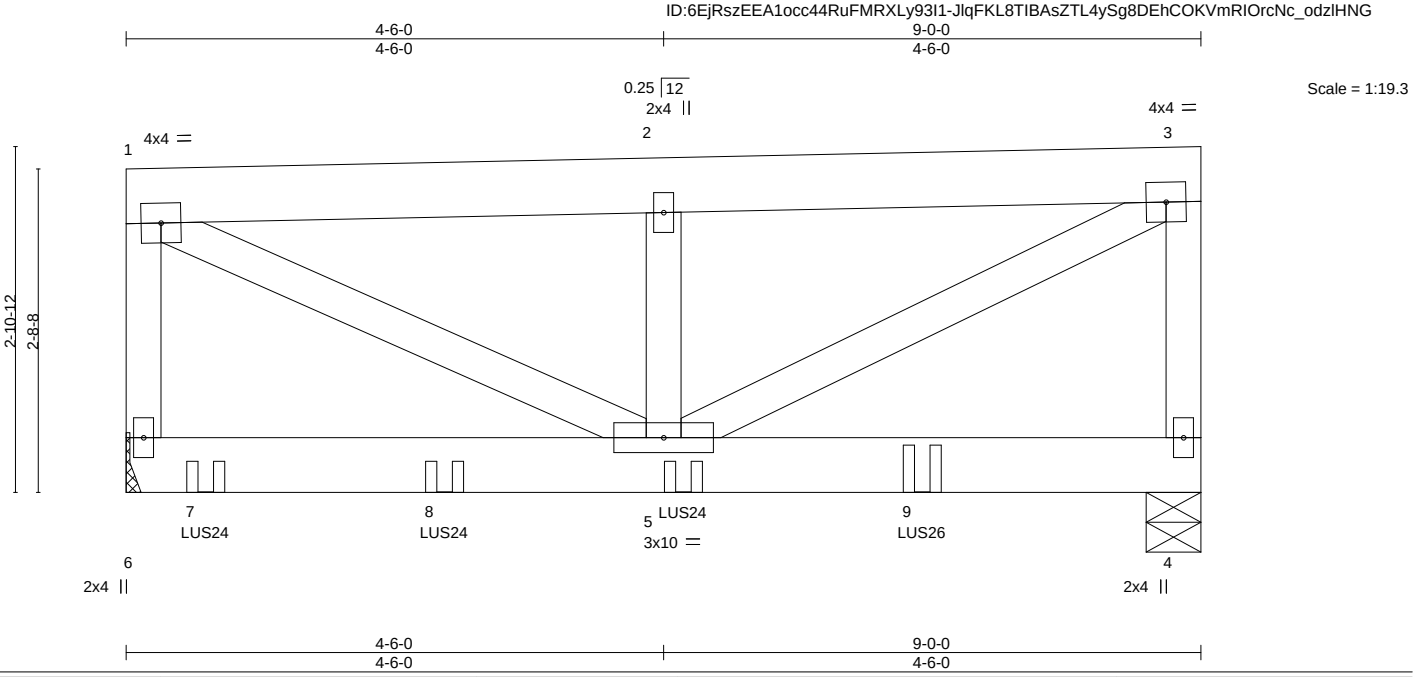
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:57 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-JlqFKL8TIBAsZTL4ySg8DEhCOKVmRIOrcNc_odzIHNG



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	0.03	4-5	>999	240	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 98 lb	FT = 20%
BCDL	10.0											

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

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

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-765/314, 1-2=-1201/507, 2-3=-1202/509, 3-4=-765/300
WEBS 1-5=-583/1349, 2-5=-289/71, 3-5=-563/1373

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

LOAD CASE(S) Standard

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-48, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-254(B) 7=-259(B) 8=-254(B) 9=-324(B)

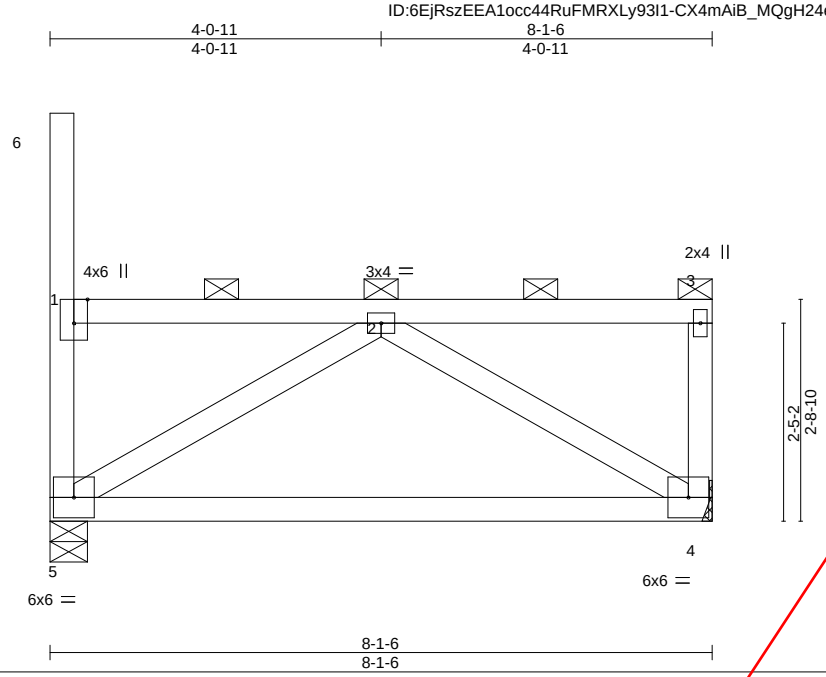
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:01 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-CX4mAiB_MQgH24erBIk4N4rjvxiqN63QX_aByOzIHNC



revise as required to meet project deflection limits -bdc

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.22	4-5	>418	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.45	4-5	>209	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	-0.01	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 36 lb	FT = 20%

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

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

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-402/284
BOT CHORD 4-5=-527/240
WEBS 2-5=-258/588, 2-4=-282/585

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

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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

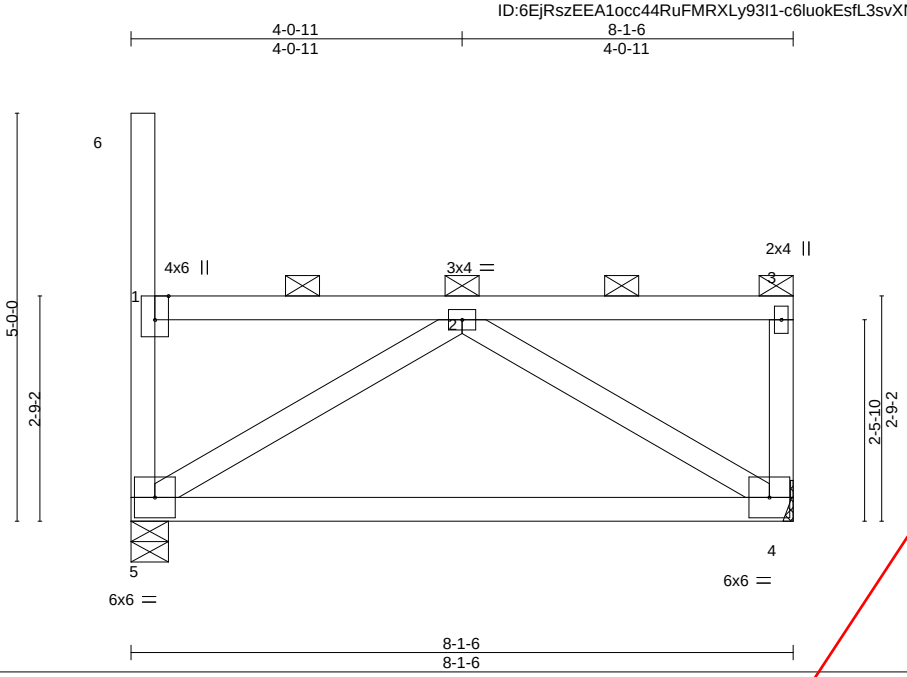
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:04 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-c6luokEsfL3svXNQsQIn?iTEY8kXaTptDyosYjzIHN9



revise as required to meet project deflection limits -bdc

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.22	4-5	>418	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.45	4-5	>209	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	-0.01	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 36 lb	FT = 20%

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

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

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-393/279
BOT CHORD 4-5=-519/236
WEBS 2-5=-255/582, 2-4=-279/578

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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

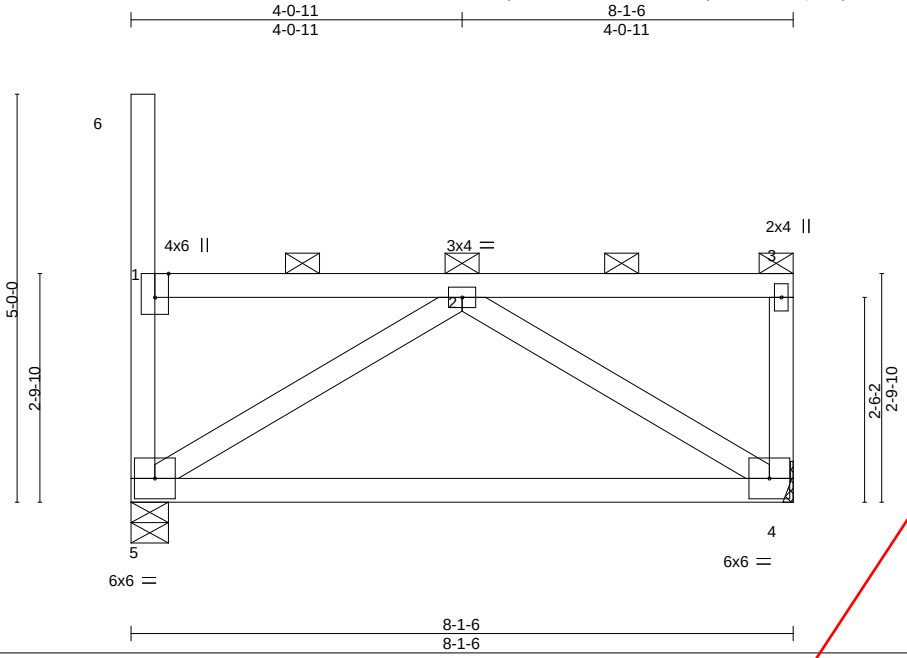
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:06 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-YUtfDQF7ByJa8rXozrKF47ZaTyQ?2NKAhGHydbzIHN7



revise as required to meet project deflection limits -bdc

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.22	4-5	>418	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.45	4-5	>209	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP							Weight: 36 lb	FT = 20%
BCDL	10.0											

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

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

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-384/274
BOT CHORD 4-5=-512/232
WEBS 2-5=-252/577, 2-4=-275/571

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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

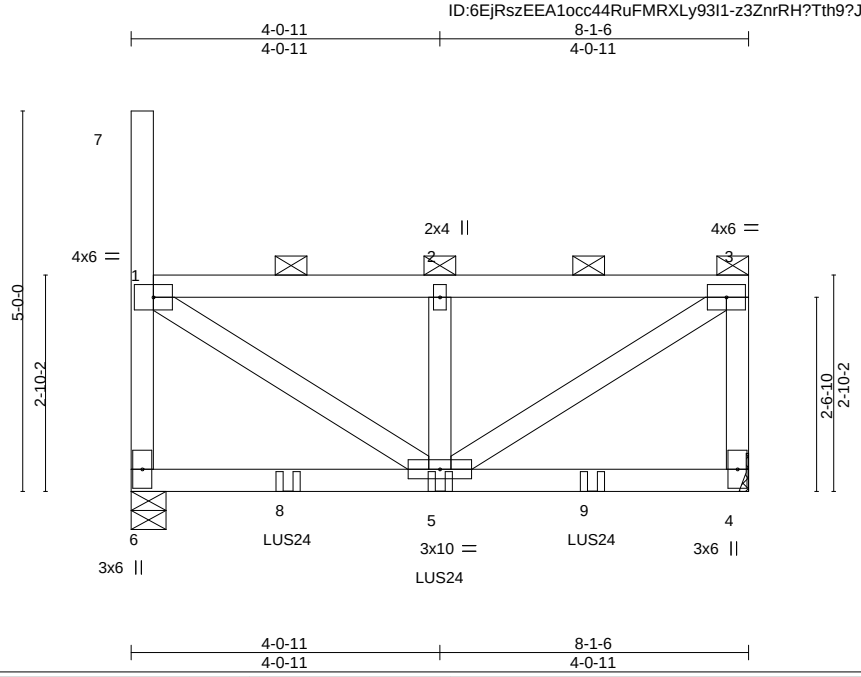
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:09 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-z3ZnrRH?Tth9?JFNfztyimBC99WTFhjcNEWdEwzlHN4



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	0.05	5-6	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.06	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 38 lb	FT = 20%

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

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

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

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

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-3=-58, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-56(F) 8=-56(F) 9=-56(F)
Trapezoidal Loads (plf)
Vert: 1=-73-to-2=-57

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-56(F) 8=-56(F) 9=-56(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-50, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-47(F) 8=-47(F) 9=-47(F)
Trapezoidal Loads (plf)
Vert: 1=-65-to-2=-50

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-48, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-47(F) 8=-47(F) 9=-47(F)
Trapezoidal Loads (plf)
Vert: 1=-63-to-2=-48

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-3=-20, 4-6=-40
Concentrated Loads (lb)
Vert: 5=-18(F) 8=-18(F) 9=-18(F)
Trapezoidal Loads (plf)
Vert: 1=-35-to-2=-20

6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=12, 1-7=50, 3-4=18
Concentrated Loads (lb)
Vert: 5=289(F) 8=289(F) 9=289(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=-18, 1-7=-50, 3-4=-12
Concentrated Loads (lb)
Vert: 5=289(F) 8=289(F) 9=289(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

8) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-3, 4-6=-20
Horz: 1-6=24, 1-7=50, 3-4=6
Concentrated Loads (lb)
Vert: 5=297(F) 8=297(F) 9=297(F)
Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3

9) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-3, 4-6=-20
Horz: 1-6=-6, 1-7=-50, 3-4=-24
Concentrated Loads (lb)
Vert: 5=297(F) 8=297(F) 9=297(F)
Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=7, 1-7=-33, 3-4=15
Concentrated Loads (lb)
Vert: 5=289(F) 8=289(F) 9=289(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=-15, 1-7=-33, 3-4=-7
Concentrated Loads (lb)
Vert: 5=289(F) 8=289(F) 9=289(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=7, 1-7=-33, 3-4=15
Concentrated Loads (lb)
Vert: 5=289(F) 8=289(F) 9=289(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=-15, 1-7=-33, 3-4=-7
Concentrated Loads (lb)
Vert: 5=289(F) 8=289(F) 9=289(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-3, 4-6=-20
Horz: 1-6=19, 1-7=-33, 3-4=4
Concentrated Loads (lb)
Vert: 5=297(F) 8=297(F) 9=297(F)
Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-3, 4-6=-20
Horz: 1-6=-4, 1-7=-33, 3-4=-19
Concentrated Loads (lb)
Vert: 5=297(F) 8=297(F) 9=297(F)
Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3

16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 2-3=-20, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-18(F) 8=-18(F) 9=-18(F)
Trapezoidal Loads (plf)
Vert: 1=-35-to-2=-20

17) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5
Concentrated Loads (lb)
Vert: 5=207(F) 8=207(F) 9=207(F)
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36

18) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=-5, 1-7=-37, 3-4=-18
Concentrated Loads (lb)
Vert: 5=207(F) 8=207(F) 9=207(F)
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3
Concentrated Loads (lb)
Vert: 5=207(F) 8=207(F) 9=207(F)
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14
Concentrated Loads (lb)
Vert: 5=207(F) 8=207(F) 9=207(F)

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-38, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5
Concentrated Loads (lb)
Vert: 5=201(F) 8=201(F) 9=201(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-38, 4-6=-20
Horz: 1-6=-5, 1-7=-37, 3-4=-18
Concentrated Loads (lb)
Vert: 5=201(F) 8=201(F) 9=201(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37

23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-38, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3
Concentrated Loads (lb)
Vert: 5=201(F) 8=201(F) 9=201(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37

24) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-38, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14
Concentrated Loads (lb)
Vert: 5=201(F) 8=201(F) 9=201(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37

25) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-56(F) 8=-56(F) 9=-56(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

26) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-12, 4-6=-12
Horz: 1-6=16, 1-7=16
Concentrated Loads (lb)
Vert: 5=283(F) 8=283(F) 9=283(F)
Trapezoidal Loads (plf)
Vert: 1=-27-to-2=-12

27) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-12, 4-6=-12
Horz: 1-7=-16, 3-4=-16
Concentrated Loads (lb)
Vert: 5=283(F) 8=283(F) 9=283(F)
Trapezoidal Loads (plf)
Vert: 1=-27-to-2=-12

28) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-56(F) 8=-56(F) 9=-56(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

29) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-56(F) 8=-56(F) 9=-56(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

30) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-50, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-47(F) 8=-47(F) 9=-47(F)

Continued on page 5

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-65-to-2=-50

31) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-50, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-47(F) 8=-47(F) 9=-47(F)
Trapezoidal Loads (plf)
Vert: 1=-65-to-2=-50

32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=12, 1-7=50, 3-4=18
Concentrated Loads (lb)
Vert: 5=-295(F) 8=-295(F) 9=-295(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=-18, 1-7=-50, 3-4=-12
Concentrated Loads (lb)
Vert: 5=-295(F) 8=-295(F) 9=-295(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-3, 4-6=-20
Horz: 1-6=24, 1-7=50, 3-4=6
Concentrated Loads (lb)
Vert: 5=-287(F) 8=-287(F) 9=-287(F)
Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3

35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-3, 4-6=-20
Horz: 1-6=-6, 1-7=-50, 3-4=-24
Concentrated Loads (lb)
Vert: 5=-287(F) 8=-287(F) 9=-287(F)
Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3

36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=7, 1-7=-33, 3-4=15
Concentrated Loads (lb)
Vert: 5=-295(F) 8=-295(F) 9=-295(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=-15, 1-7=-33, 3-4=-7
Concentrated Loads (lb)
Vert: 5=-295(F) 8=-295(F) 9=-295(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=7, 1-7=-33, 3-4=15
Concentrated Loads (lb)
Vert: 5=-295(F) 8=-295(F) 9=-295(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=-15, 1-7=-33, 3-4=-7
Concentrated Loads (lb)
Vert: 5=-295(F) 8=-295(F) 9=-295(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 6

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 2-3=-3, 4-6=-20
Horz: 1-6=19, 1-7=-33, 3-4=4
Concentrated Loads (lb)
Vert: 5=-287(F) 8=-287(F) 9=-287(F)
Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3

41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-3, 4-6=-20
Horz: 1-6=-4, 1-7=-33, 3-4=-19
Concentrated Loads (lb)
Vert: 5=-287(F) 8=-287(F) 9=-287(F)
Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3

42) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5
Concentrated Loads (lb)
Vert: 5=-235(F) 8=-235(F) 9=-235(F)
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36

43) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=-5, 1-7=-37, 3-4=-18
Concentrated Loads (lb)
Vert: 5=-235(F) 8=-235(F) 9=-235(F)
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36

44) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3
Concentrated Loads (lb)
Vert: 5=-235(F) 8=-235(F) 9=-235(F)
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36

45) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14
Concentrated Loads (lb)
Vert: 5=-235(F) 8=-235(F) 9=-235(F)
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36

46) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-38, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5
Concentrated Loads (lb)
Vert: 5=-241(F) 8=-241(F) 9=-241(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37

47) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-38, 4-6=-20
Horz: 1-6=-5, 1-7=-37, 3-4=-18
Concentrated Loads (lb)
Vert: 5=-241(F) 8=-241(F) 9=-241(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37

48) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-38, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3
Concentrated Loads (lb)
Vert: 5=-241(F) 8=-241(F) 9=-241(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37

49) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 7

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 2-3=-38, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14
Concentrated Loads (lb)
Vert: 5=-241(F) 8=-241(F) 9=-241(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37

50) Reversal: Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-12, 4-6=-12
Horz: 1-6=16, 1-7=16
Concentrated Loads (lb)
Vert: 5=-290(F) 8=-290(F) 9=-290(F)
Trapezoidal Loads (plf)
Vert: 1=-27-to-2=-12

51) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-12, 4-6=-12
Horz: 1-7=-16, 3-4=-16
Concentrated Loads (lb)
Vert: 5=-290(F) 8=-290(F) 9=-290(F)
Trapezoidal Loads (plf)
Vert: 1=-27-to-2=-12

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:21 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-cNHKMYRXfZCSR9AhMV5mBIgDl?cR33?N75QFeEzIHMu

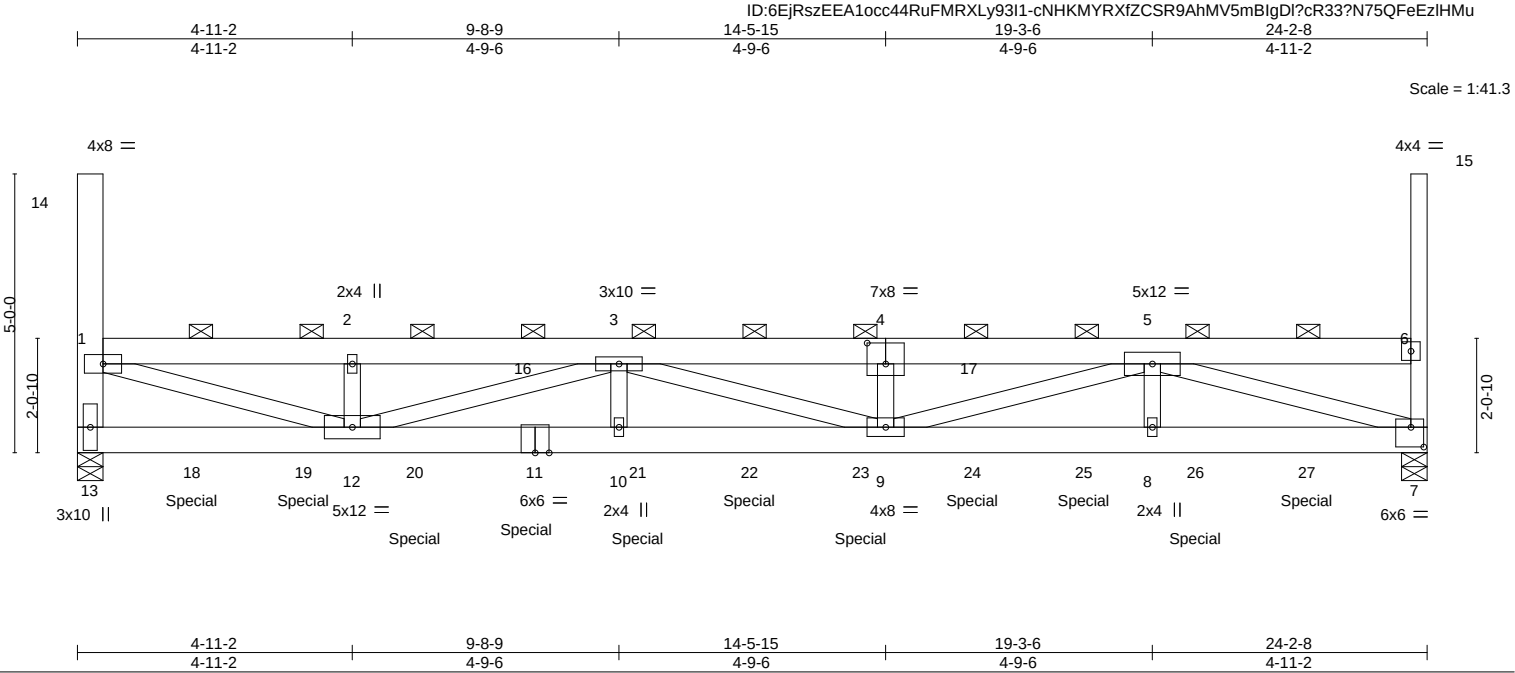


Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [7:0-2-12,0-4-4]

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

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

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

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

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

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1583 lb uplift at joint 13 and 1566 lb uplift at joint 7.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 17, 18, 19, 20, 25, 42, 43, 44, 45 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

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

LOAD CASE(S) Standard Except:

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

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-47-to-6=-36

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

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

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:28 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-vjCzqxWw?j4SnEC1GTjPzmTJXqtxC7mPlhc7OKzIHMn

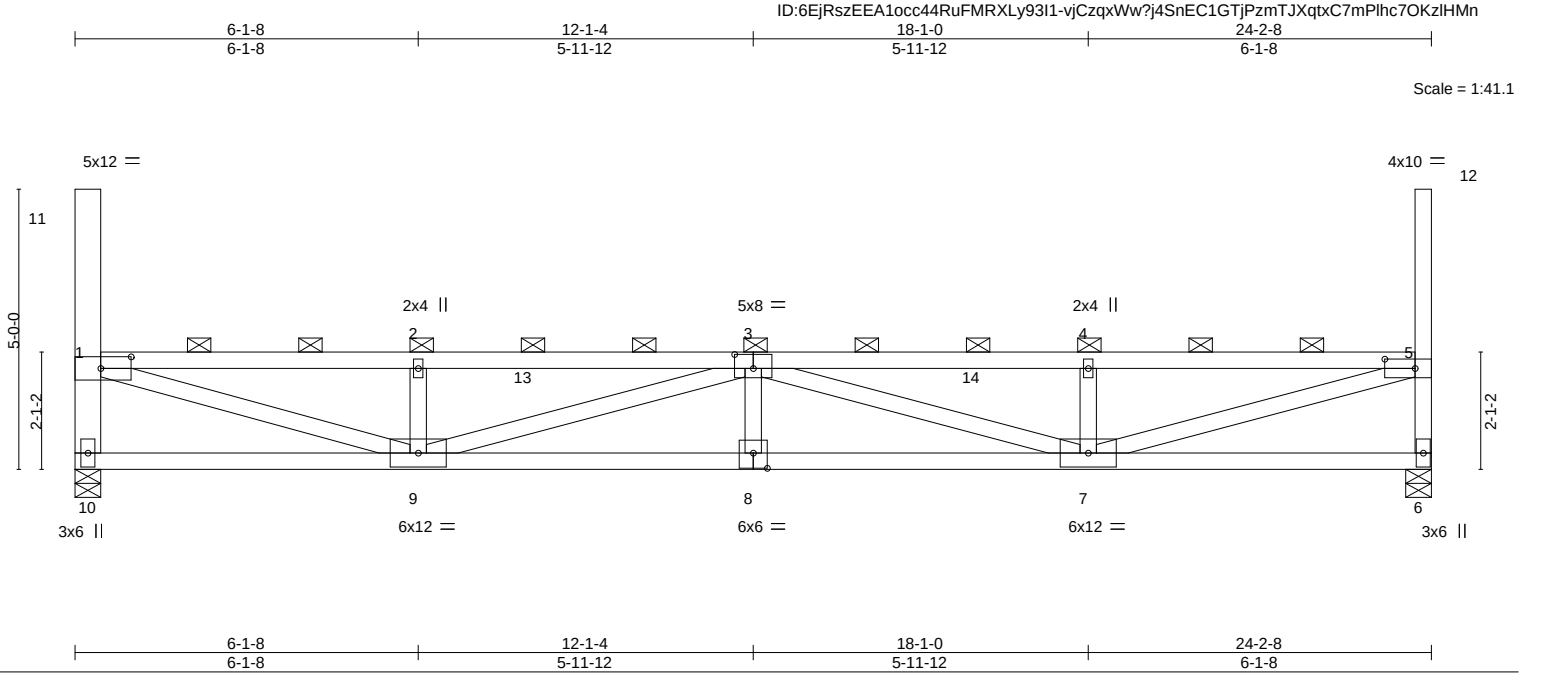


Plate Offsets (X,Y)-- [1:0-6-8,0-2-8], [3:0-4-0,0-3-0], [5:0-6-8,0-2-0], [8:0-3-0,0-3-4]

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

LUMBER-

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

BRACING-

TOP CHORD	2-0-0 oc purlins (2-11-10 max.): 1-11, 1-5, 5-12, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-3-2 oc bracing.

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

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

TOP CHORD	1-10=-947/580, 1-2=-2544/1386, 2-3=-2544/1386, 3-4=-2572/1345, 4-5=-2572/1345, 5-6=-948/538
BOT CHORD	9-10=-680/672, 8-9=-1862/3326, 7-8=-1862/3326
WEBS	1-9=-1465/2546, 2-9=-396/337, 3-9=-848/635, 3-7=-787/670, 4-7=-403/318, 5-7=-1428/2580

NOTES-

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

LOAD CASE(S)

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

Uniform Loads (plf)
Vert: 13-14=-58, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-13=-58, 14=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 14=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-50, 6-10=-20
Trapezoidal Loads (plf)
Vert: 14=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-48, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-13=-48, 14=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-14=-20, 6-10=-40
Trapezoidal Loads (plf)
Vert: 14=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=54, 6-10=-12
Horz: 1-10=19, 1-11=87, 5-6=34, 5-12=55
Trapezoidal Loads (plf)
Vert: 14=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=54, 6-10=-12
Horz: 1-10=-34, 1-11=-55, 5-6=-19, 5-12=-87
Trapezoidal Loads (plf)
Vert: 14=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-32, 6-10=-20
Horz: 1-10=-23, 1-11=36, 5-6=-31, 5-12=55
Trapezoidal Loads (plf)
Vert: 14=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-32, 6-10=-20
Horz: 1-10=31, 1-11=-55, 5-6=23, 5-12=-36
Trapezoidal Loads (plf)
Vert: 14=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=16, 6-10=-12
Horz: 1-10=12, 1-11=50, 5-6=18, 5-12=33
Trapezoidal Loads (plf)
Vert: 14=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=16, 6-10=-12
Horz: 1-10=-18, 1-11=-33, 5-6=-12, 5-12=-50
Trapezoidal Loads (plf)
Vert: 14=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-3, 6-10=-20
Horz: 1-10=24, 1-11=50, 5-6=6, 5-12=33
Trapezoidal Loads (plf)
Vert: 14=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-3, 6-10=-20
Horz: 1-10=-6, 1-11=-33, 5-6=-24, 5-12=-50
Trapezoidal Loads (plf)
Vert: 14=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-14=16, 6-10=-12
Horz: 1-10=7, 1-11=-33, 5-6=15, 5-12=33
Trapezoidal Loads (plf)
Vert: 14=16-to-5=1

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=16, 6-10=-12
Horz: 1-10=-15, 1-11=-33, 5-6=-7, 5-12=33
Trapezoidal Loads (plf)
Vert: 14=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=16, 6-10=-12
Horz: 1-10=7, 1-11=-33, 5-6=15, 5-12=33
Trapezoidal Loads (plf)
Vert: 14=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=16, 6-10=-12
Horz: 1-10=-15, 1-11=-33, 5-6=-7, 5-12=33
Trapezoidal Loads (plf)
Vert: 14=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-3, 6-10=-20
Horz: 1-10=19, 1-11=-33, 5-6=4, 5-12=33
Trapezoidal Loads (plf)
Vert: 14=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-3, 6-10=-20
Horz: 1-10=-4, 1-11=-33, 5-6=-19, 5-12=33
Trapezoidal Loads (plf)
Vert: 14=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-14=-20, 6-10=-20
Trapezoidal Loads (plf)
Vert: 14=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=18, 1-11=37, 5-6=5, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-36, 14=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=-5, 1-11=-25, 5-6=-18, 5-12=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-36, 14=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=14, 1-11=-25, 5-6=3, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-36, 14=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=-3, 1-11=-25, 5-6=-14, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-36, 14=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-38, 6-10=-20
Horz: 1-10=18, 1-11=37, 5-6=5, 5-12=25
Trapezoidal Loads (plf)
Vert: 14=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-38, 6-10=-20
Horz: 1-10=-5, 1-11=-25, 5-6=-18, 5-12=-37
Trapezoidal Loads (plf)
Vert: 14=-38-to-5=-53

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-38, 6-10=-20
Horz: 1-10=14, 1-11=-25, 5-6=3, 5-12=25
Trapezoidal Loads (plf)
Vert: 14=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-38, 6-10=-20
Horz: 1-10=-3, 1-11=-25, 5-6=-14, 5-12=25
Trapezoidal Loads (plf)
Vert: 14=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-13=-60, 14=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-28, 6-10=-12
Horz: 1-10=-16, 1-11=33, 5-6=-16, 5-12=33
Trapezoidal Loads (plf)
Vert: 14=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=4, 6-10=-12
Horz: 1-10=16, 1-11=33, 5-6=16, 5-12=33
Trapezoidal Loads (plf)
Vert: 14=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 14=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 14=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-50, 6-10=-20
Trapezoidal Loads (plf)
Vert: 14=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-50, 6-10=-20
Trapezoidal Loads (plf)
Vert: 14=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:35 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-C37cIKcJMsyT7IFNARL2lFGV8eHwLIzRMHp?7QzIHMg

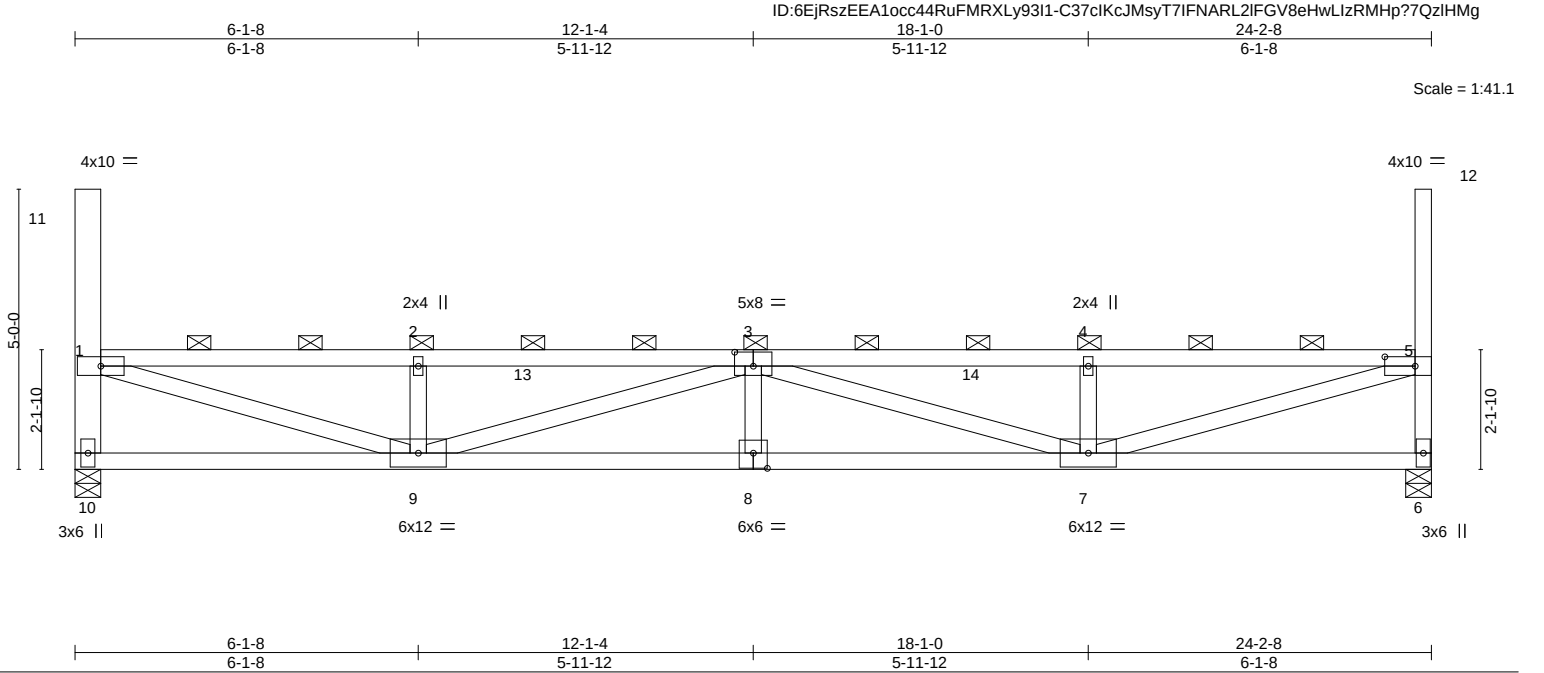


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-6-8,0-2-0], [8:0-3-0,0-3-4]

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

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

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

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-948/528, 1-2=-2488/1288, 2-3=-2488/1288, 3-4=-2516/1294, 4-5=-2516/1294, 5-6=-949/531
BOT CHORD 9-10=-657/671, 8-9=-1787/3252, 7-8=-1787/3252
WEBS 1-9=-1377/2497, 2-9=-396/310, 3-9=-800/651, 3-7=-770/636, 4-7=-404/317, 5-7=-1377/2530

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

Uniform Loads (plf)
Vert: 13-14=-58, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-13=-58, 14=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-13=-60, 14=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-50, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-13=-50, 14=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-48, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-13=-48, 14=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 13-14=-20, 6-10=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-13=-20, 14=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=54, 6-10=-12
Horz: 1-10=19, 1-11=87, 5-6=34, 5-12=55
Trapezoidal Loads (plf)
Vert: 1=39-to-13=54, 14=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=54, 6-10=-12
Horz: 1-10=-34, 1-11=-55, 5-6=-19, 5-12=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-13=54, 14=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-32, 6-10=-20
Horz: 1-10=-23, 1-11=36, 5-6=-31, 5-12=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-32, 14=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-32, 6-10=-20
Horz: 1-10=31, 1-11=-55, 5-6=23, 5-12=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-32, 14=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=12, 1-11=50, 5-6=18, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=-18, 1-11=-33, 5-6=-12, 5-12=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-3, 6-10=-20
Horz: 1-10=24, 1-11=50, 5-6=6, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-13=-3, 14=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-3, 6-10=-20
Horz: 1-10=-6, 1-11=-33, 5-6=-24, 5-12=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-13=-3, 14=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=7, 1-11=-33, 5-6=15, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=-15, 1-11=-33, 5-6=-7, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=7, 1-11=-33, 5-6=15, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=-15, 1-11=-33, 5-6=-7, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-3, 6-10=-20
Horz: 1-10=19, 1-11=-33, 5-6=4, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-13=-3, 14=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-3, 6-10=-20
Horz: 1-10=-4, 1-11=-33, 5-6=-19, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-13=-3, 14=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 13-14=-20, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-13=-20, 14=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=18, 1-11=37, 5-6=5, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-13=-36, 14=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=-5, 1-11=-25, 5-6=-18, 5-12=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-13=-36, 14=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=14, 1-11=-25, 5-6=3, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-13=-36, 14=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=-3, 1-11=-25, 5-6=-14, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-13=-36, 14=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-38, 6-10=-20
Horz: 1-10=18, 1-11=37, 5-6=5, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-13=-38, 14=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-38, 6-10=-20
Horz: 1-10=-5, 1-11=-25, 5-6=-18, 5-12=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-13=-38, 14=-38-to-5=-53

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-38, 6-10=-20
Horz: 1-10=14, 1-11=-25, 5-6=3, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-13=-38, 14=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-38, 6-10=-20
Horz: 1-10=-3, 1-11=-25, 5-6=-14, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-13=-38, 14=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-13=-60, 14=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-28, 6-10=-12
Horz: 1-10=-16, 1-11=33, 5-6=-16, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-13=-28, 14=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=4, 6-10=-12
Horz: 1-10=16, 1-11=33, 5-6=16, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-13=4, 14=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-13=-60, 14=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-13=-60, 14=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-50, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-13=-50, 14=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-50, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-13=-50, 14=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

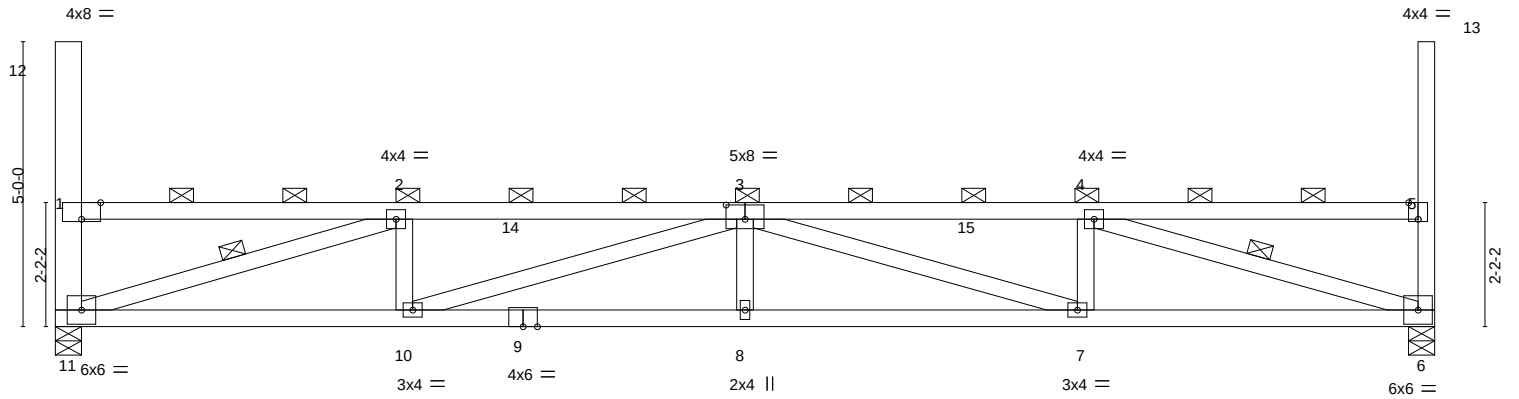
Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:41 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-1DUtZOg4xijcrDiXXiSS?WVX?3Kgl5dJkDGJL4zlHMa

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

Scale = 1:40.4



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

Plate Offsets (X,Y)-- [1:0-4-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]

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

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

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

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-433/353, 2-3=-2435/1258, 3-4=-2463/1269, 4-5=-420/342
BOT CHORD 10-11=-1552/2435, 8-10=-1754/3181, 7-8=-1754/3181, 6-7=-1157/2463
WEBS 2-11=-2451/1355, 2-10=-110/420, 3-10=-782/633, 3-7=-753/625, 4-7=-110/418, 4-6=-2484/1346

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:43 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-zcce_4iKTJzK4Xswe6Uw4xbutt0SD?FcBXlQQyzlHMY

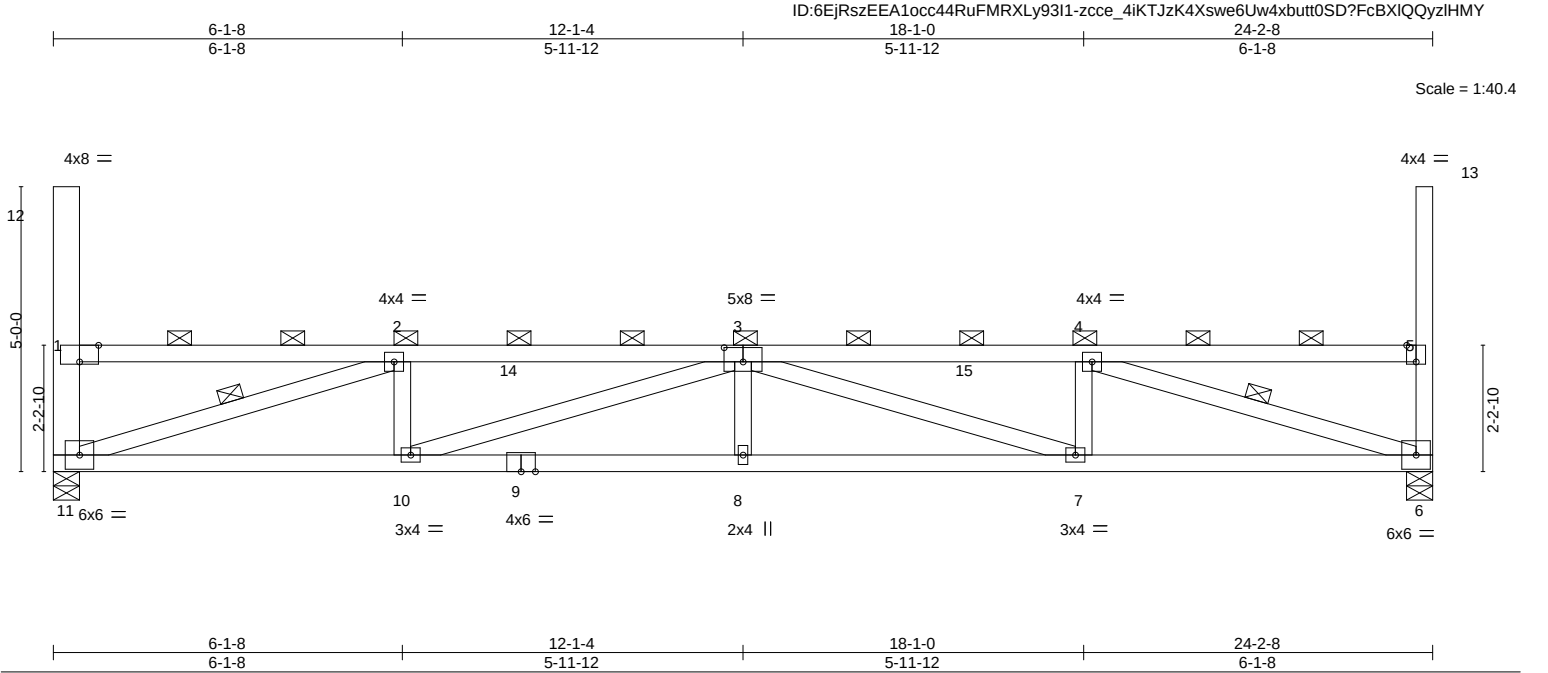


Plate Offsets (X,Y)-- [1:0-4-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	0.26	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.44	7-8	>650	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.11	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 101 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (3-5-8 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-5-5 oc bracing.
WEBS 1 Row at midpt 2-11, 4-6

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-302(LC 12)
Max Uplift 11=-31(LC 10), 6=-29(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-422/344, 2-3=-2384/1232, 3-4=-2412/1242, 4-5=-409/334
BOT CHORD 10-11=-1523/2384, 8-10=-1721/3113, 7-8=-1721/3113, 6-7=-1138/2412
WEBS 2-11=-2406/1329, 2-10=-110/420, 3-10=-766/619, 3-7=-737/612, 4-7=-110/418, 4-6=-2438/1320

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:44 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-RoA0BPiyEd5BihR6Cq09d873zGM_ySdmQBUzyOzlHMX

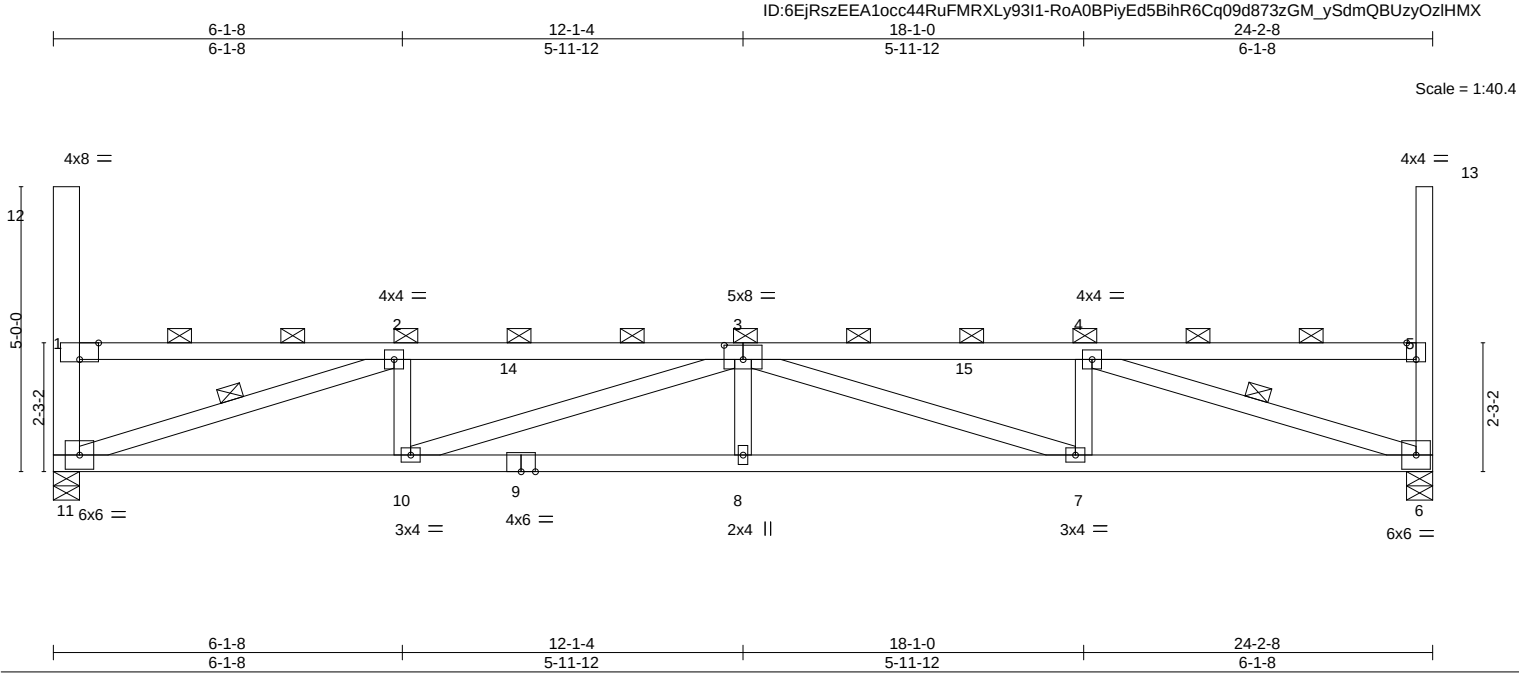


Plate Offsets (X,Y)-- [1:0-4-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]

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

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

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

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

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

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

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

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:47 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-rNr9qRlrXYTmZ89htyZsEnlbaUOz9kpC68jdZjzIHMU

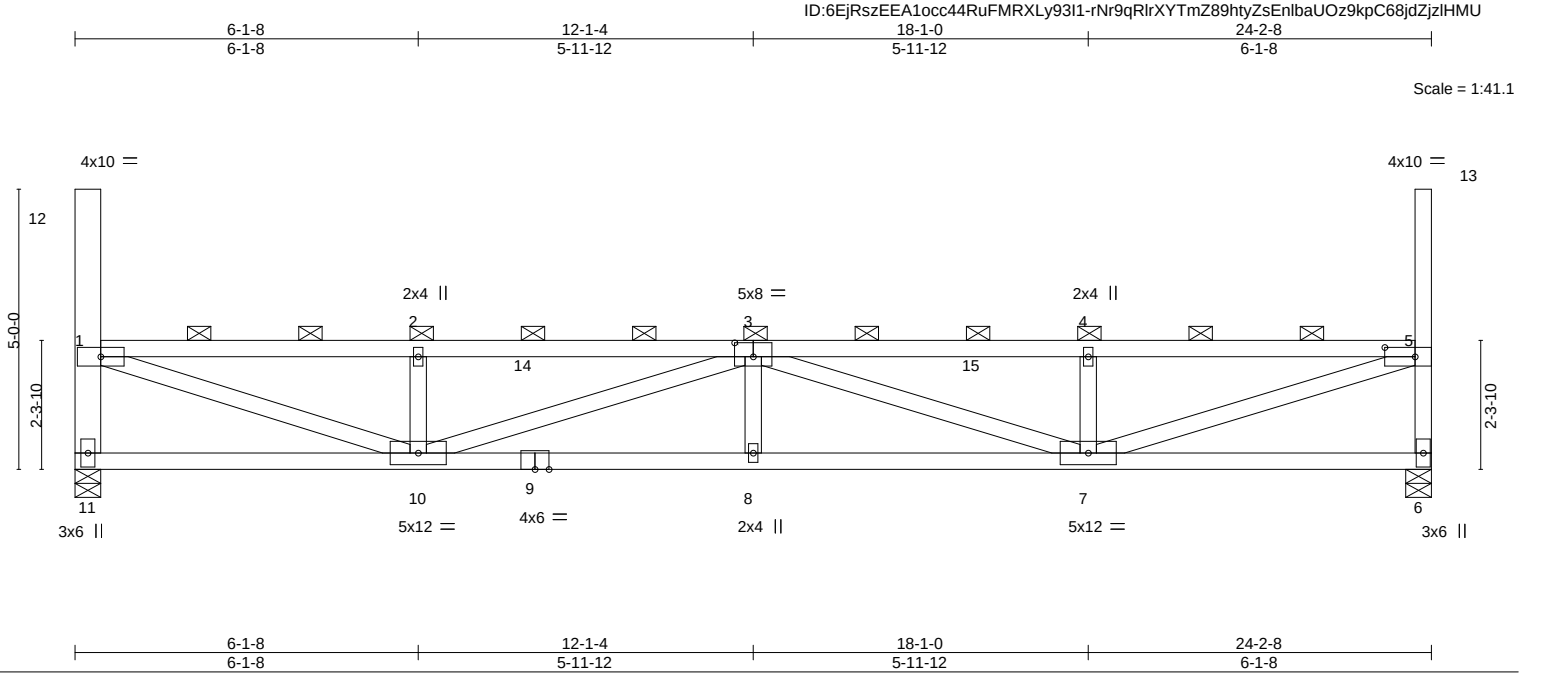


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-6-8,0-2-0]

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

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

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

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-949/528, 1-2=-2287/1184, 2-3=-2287/1184, 3-4=-2314/1190, 4-5=-2314/1190, 5-6=-951/530
BOT CHORD 10-11=-611/623, 8-10=-1658/2987, 7-8=-1658/2987
WEBS 1-10=-1275/2319, 2-10=-398/310, 3-10=-738/598, 3-7=-711/585, 4-7=-406/318, 5-7=-1275/2350

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T23	Flat	2	1	I50215661
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:48 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-JZPX1nmTIsbdBIktRg45n_ImgukTuBGLLoSB5AzIHMT

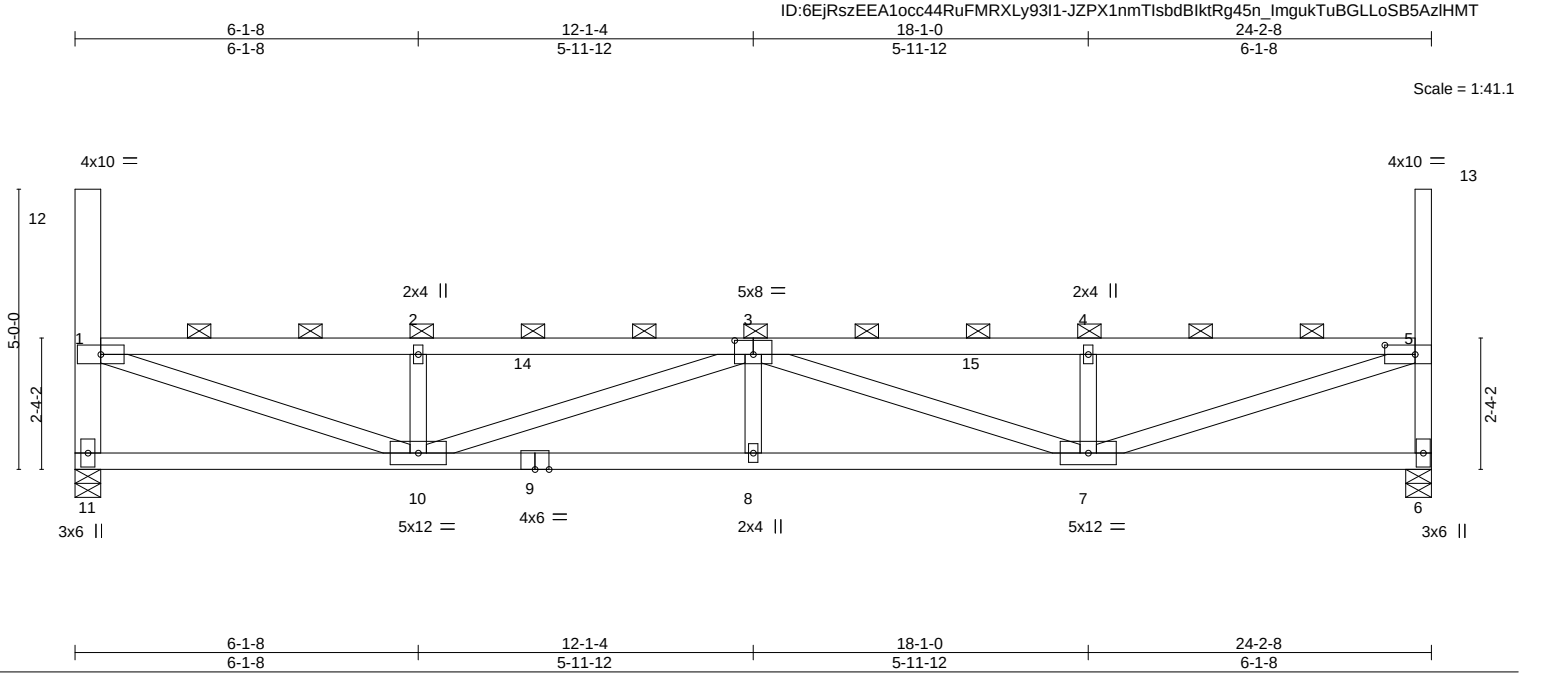


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	0.22	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.39	7-8	>728	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.06	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 101 lb	FT = 20%
BCDL	10.0											

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

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

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-295(LC 10)
Max Uplift 11=-30(LC 10), 6=-29(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-950/528, 1-2=-2242/1161, 2-3=-2242/1161, 3-4=-2268/1167, 4-5=-2268/1167, 5-6=-951/530
BOT CHORD 10-11=-601/611, 8-10=-1629/2927, 7-8=-1629/2927
WEBS 1-10=-1252/2279, 2-10=-399/310, 3-10=-725/586, 3-7=-697/573, 4-7=-406/318, 5-7=-1252/2310

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T24	Flat	2	1	I50215662
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:49 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-omzvE7m539jUoSJ3?NbKKCrxmH4zdfLVaSCkdczIHMS

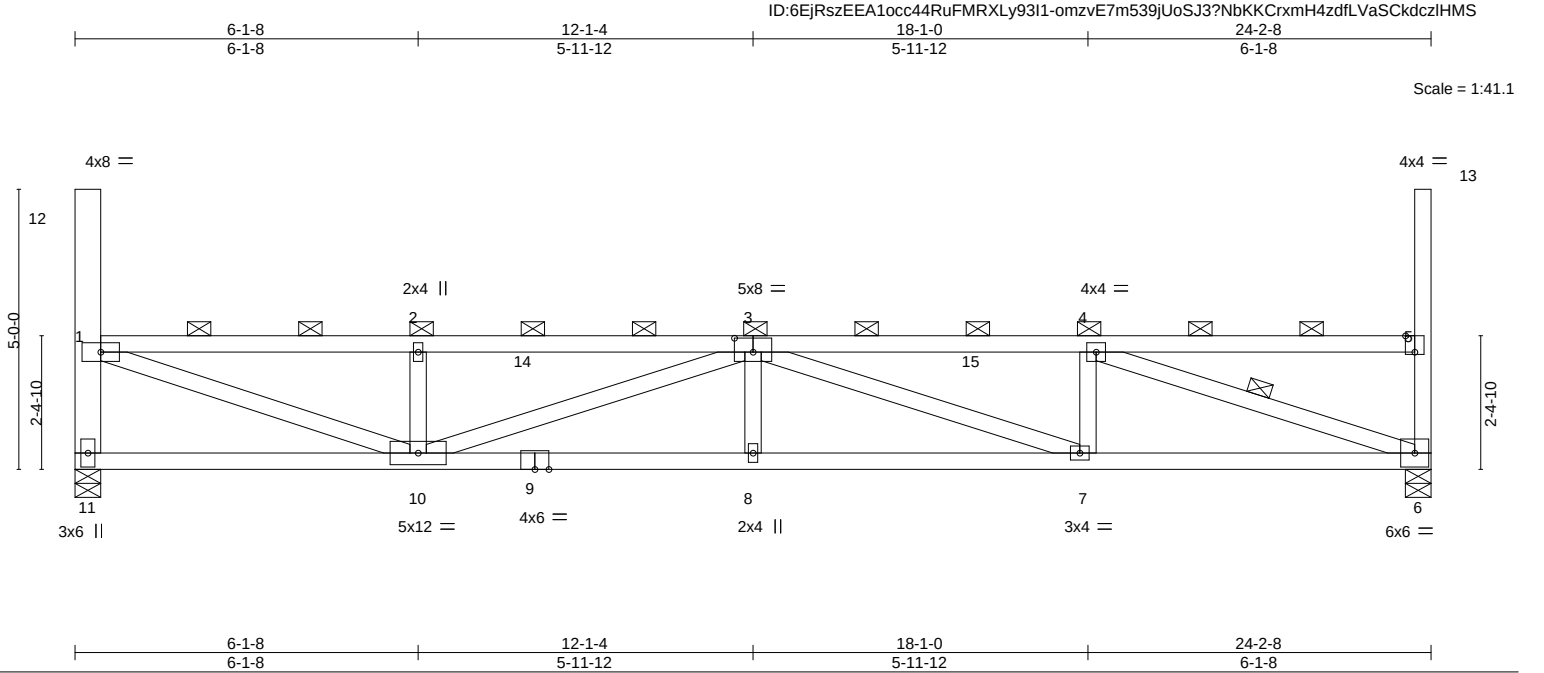


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	0.22	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.38	7-8	>758	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.08	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 101 lb	FT = 20%

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

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

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-293(LC 10)
Max Uplift 11=-30(LC 10), 6=-29(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-950/528, 1-2=-2199/1138, 2-3=-2199/1138, 3-4=-2225/1146, 4-5=-369/303
BOT CHORD 10-11=-591/601, 8-10=-1601/2870, 7-8=-1601/2870, 6-7=-1069/2225
WEBS 1-10=-1230/2241, 2-10=-399/310, 3-10=-711/574, 3-7=-683/564, 4-7=-109/419, 4-6=-2272/1227

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T25	Flat	2	1	I50215663
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:50 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-GyXHSTnjqTrLQcuGY56ZsPN6rhRSM6leo6xH92zlHMR

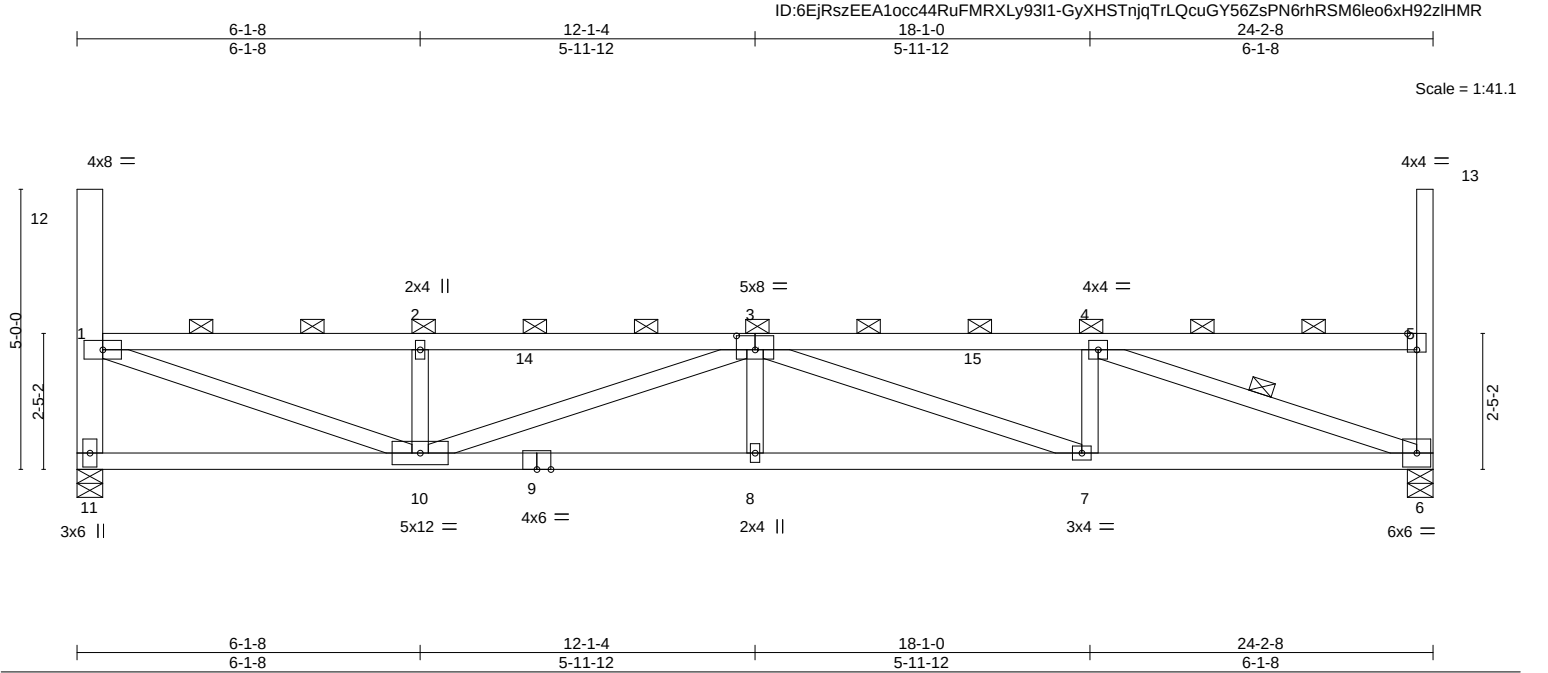


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.21	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.36	7-8	>786	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.08	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 102 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (3-5-13 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-15 oc bracing.
WEBS 1 Row at midpt 4-6

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-291(LC 10)
Max Uplift 11=-30(LC 10), 6=-29(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-950/527, 1-2=-2157/1116, 2-3=-2157/1116, 3-4=-2182/1124, 4-5=-359/296
BOT CHORD 10-11=-581/590, 8-10=-1574/2814, 7-8=-1574/2814, 6-7=-1053/2182
WEBS 1-10=-1209/2204, 2-10=-400/310, 3-10=-698/563, 3-7=-671/553, 4-7=-108/419, 4-6=-2235/1206

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

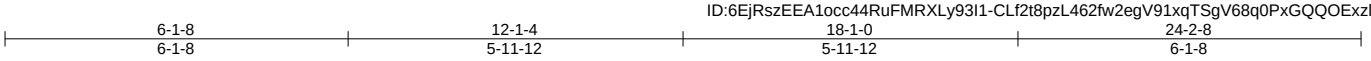
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

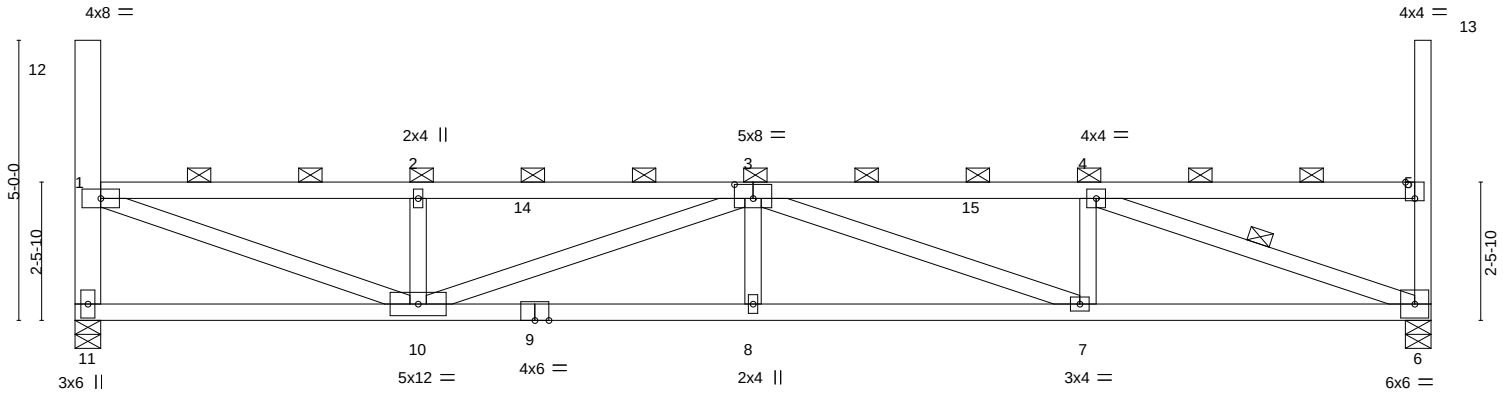
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T26	Flat	2	1	I50215664
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:52 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-CLf2t8pzL462fw2egV91xqTSgV68q0PxGQQOExzlHMP



Scale = 1:41.1



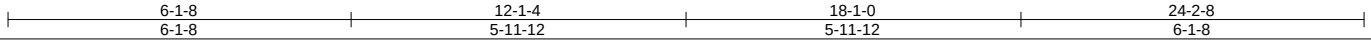


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.20	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.35	7-8	>814	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.08	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 102 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (3-6-5 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-7 oc bracing.
WEBS 1 Row at midpt 4-6

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-289(LC 10)
Max Uplift 11=-30(LC 10), 6=-28(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-951/527, 1-2=-2117/1095, 2-3=-2117/1095, 3-4=-2142/1103, 4-5=-350/290
BOT CHORD 10-11=-571/580, 8-10=-1548/2761, 7-8=-1548/2761, 6-7=-1038/2142
WEBS 1-10=-1188/2169, 2-10=-400/310, 3-10=-686/552, 3-7=-659/543, 4-7=-108/420, 4-6=-2199/1185

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T27	Flat	2	1	I50215665
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:53 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-gXDQ4Upc6OEvH3drEDgGU2?dlvScZTp4U4AymNzlHMO

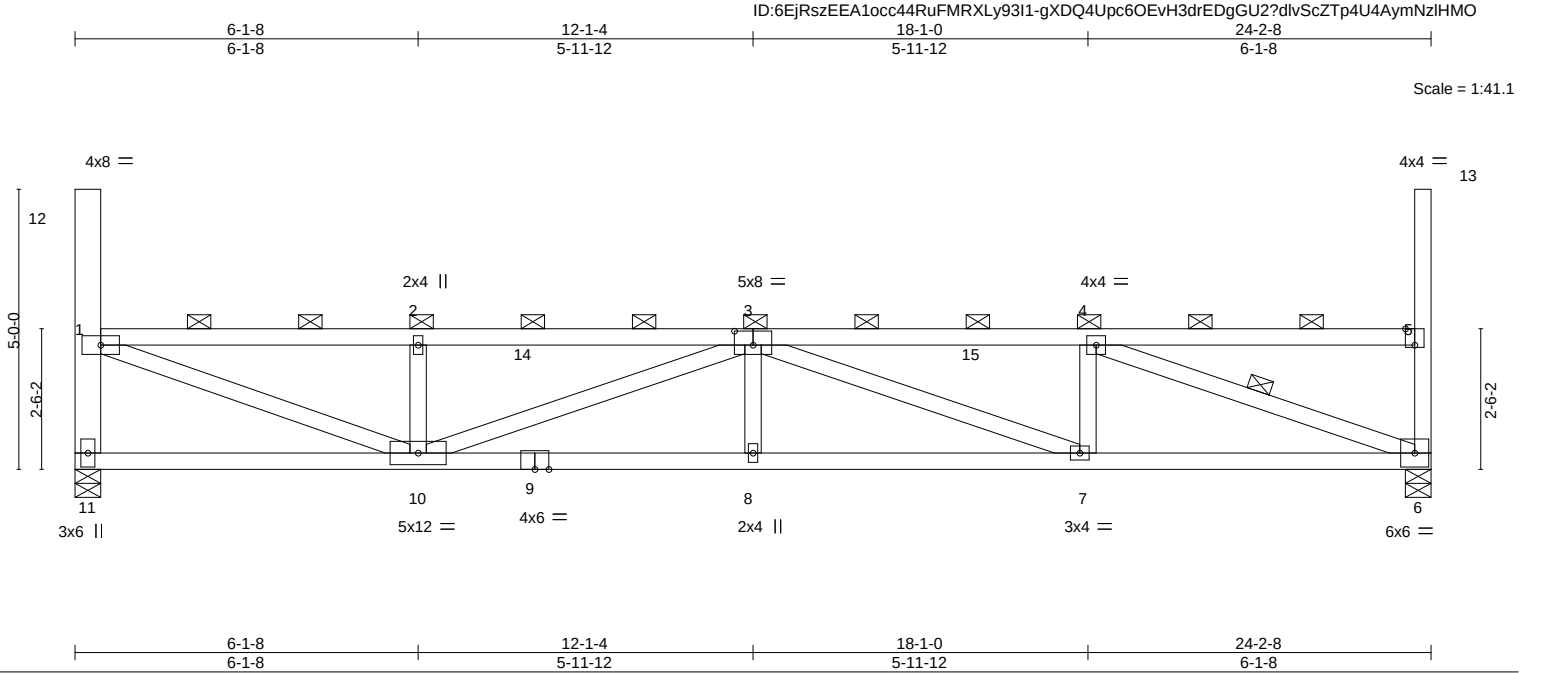


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.20	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.34	7-8	>843	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.07	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 102 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (3-6-13 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-15 oc bracing.
WEBS 1 Row at midpt 4-6

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-287(LC 10)
Max Uplift 11=-29(LC 10), 6=-28(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-951/527, 1-2=-2078/1075, 2-3=-2078/1075, 3-4=-2102/1083, 4-5=-341/284
BOT CHORD 10-11=-562/570, 8-10=-1523/2710, 7-8=-1523/2710, 6-7=-1023/2102
WEBS 1-10=-1168/2134, 2-10=-400/311, 3-10=-674/542, 3-7=-648/533, 4-7=-108/420, 4-6=-2164/1166

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T28	Flat	2	1	I50215666
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:54 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-8jnoIqqEtiMmvDB1nwBV1FYppIo3IwCEjkvVIpzIHMN

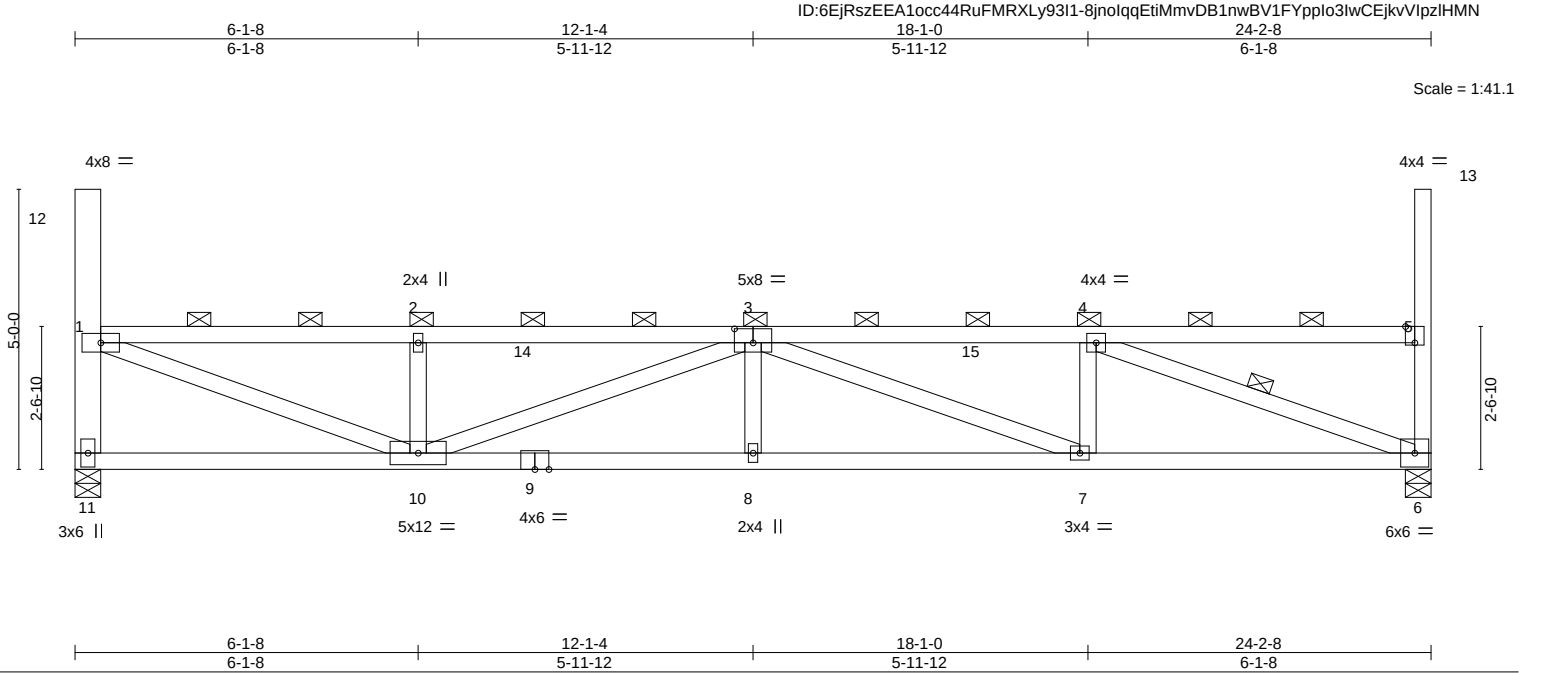


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.19	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.33	7-8	>872	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.07	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 102 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	2-0-0 oc purlins (3-7-5 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-9-7 oc bracing.
WEBS	1 Row at midpt 4-6

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=284(LC 11)
Max Uplift 11=-29(LC 10), 6=-28(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

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

TOP CHORD	1-11=-951/527, 1-2=-2040/1056, 2-3=-2040/1056, 3-4=-2064/1063, 4-5=-333/277
BOT CHORD	10-11=-553/560, 8-10=-1498/2661, 7-8=-1498/2661, 6-7=-1009/2064
WEBS	1-10=-1149/2101, 2-10=-401/311, 3-10=-663/532, 3-7=-637/523, 4-7=-107/420, 4-6=-2131/1147

NOTES-

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T29	Flat	2	1	I50215667
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:55 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-cwKAVArse?UdWNmDLeikZT5zGi8W1M_NyOf2rGzIHMM

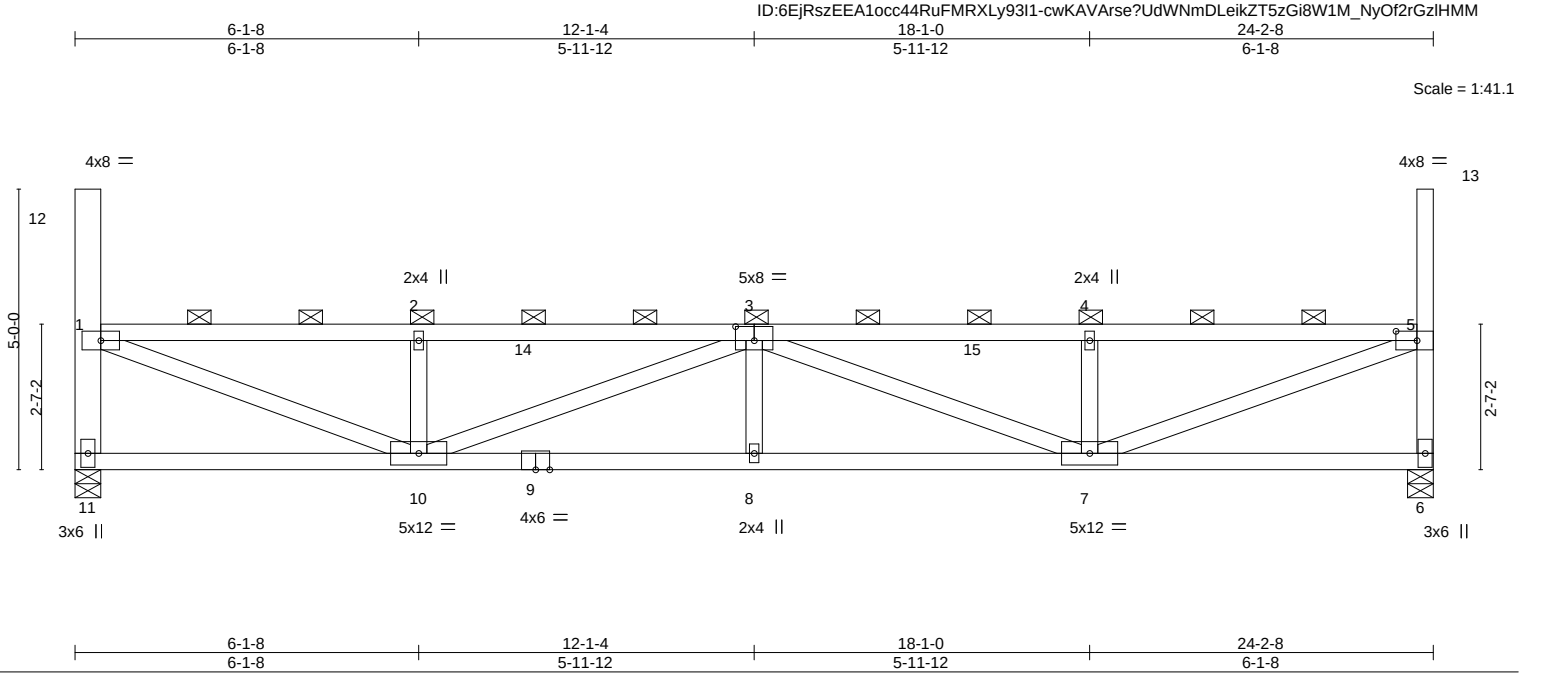


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.18	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.32	7-8	>898	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.05	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 102 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (3-6-6 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-14 oc bracing.

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-282(LC 10)
Max Uplift 11=-29(LC 10), 6=-28(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-952/526, 1-2=-2004/1037, 2-3=-2004/1037, 3-4=-2027/1043, 4-5=-2027/1043, 5-6=-953/528
BOT CHORD 10-11=-544/551, 8-10=-1474/2613, 7-8=-1474/2613
WEBS 1-10=-1131/2070, 2-10=-401/311, 3-10=-653/523, 3-7=-628/513, 4-7=-409/318, 5-7=-1131/2097

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T30	Flat	2	1	I50215668
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:56 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-46uYiWsUPJcU8XLPvLDz6gd9w6VymqyXB2OcNizIHML

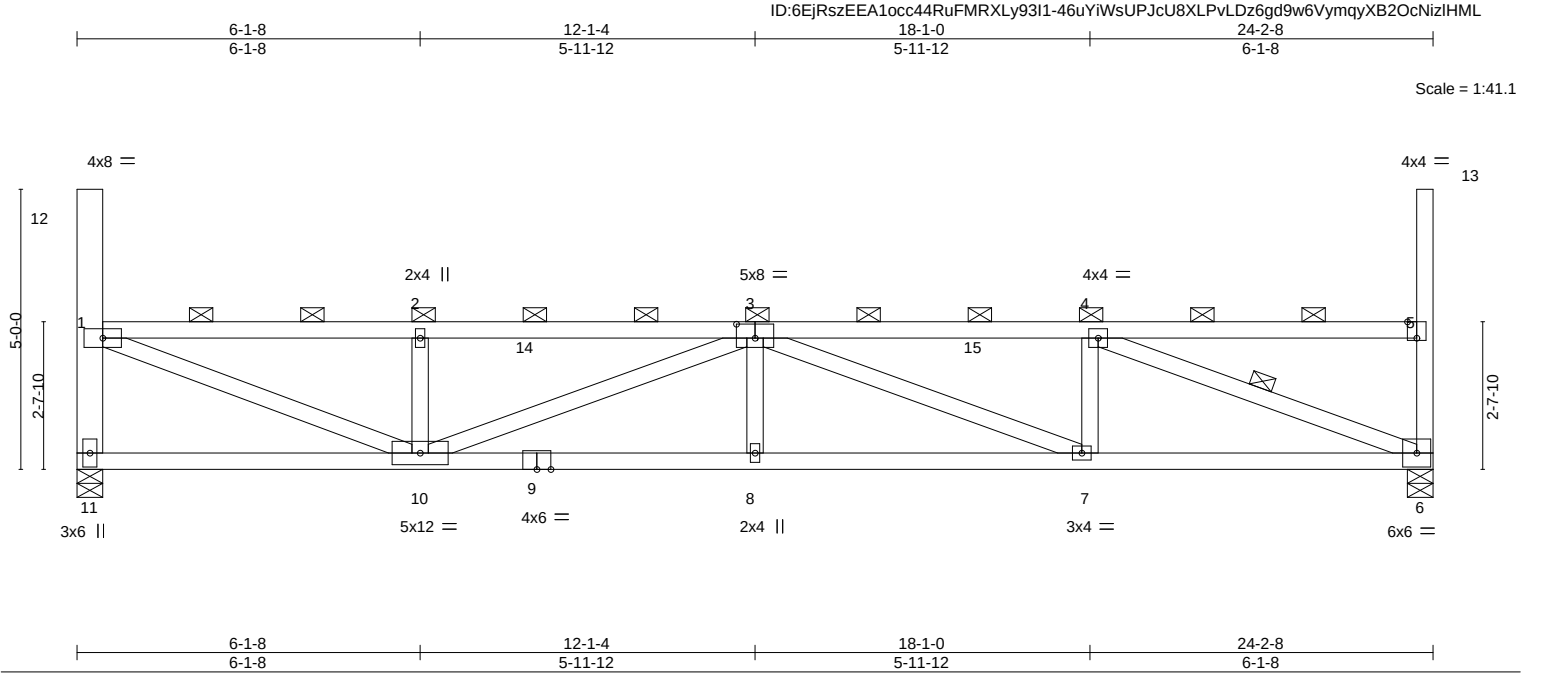


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.18	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.31	7-8	>931	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.07	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 103 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (3-8-4 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-6 oc bracing.
WEBS 1 Row at midpt 4-6

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-280(LC 10)
Max Uplift 11=-29(LC 10), 6=-27(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-952/526, 1-2=-1969/1019, 2-3=-1969/1019, 3-4=-1993/1026, 4-5=-317/266
BOT CHORD 10-11=-535/542, 8-10=-1451/2567, 7-8=-1451/2567, 6-7=-981/1993
WEBS 1-10=-1113/2039, 2-10=-401/311, 3-10=-642/514, 3-7=-617/505, 4-7=-106/420, 4-6=-2067/1112

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T31	Flat	2	1	I50215669
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:59 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-VhahLYuMiE_3?_4_aTngkJFgTJWrzBqzt0dG_1zIHMI

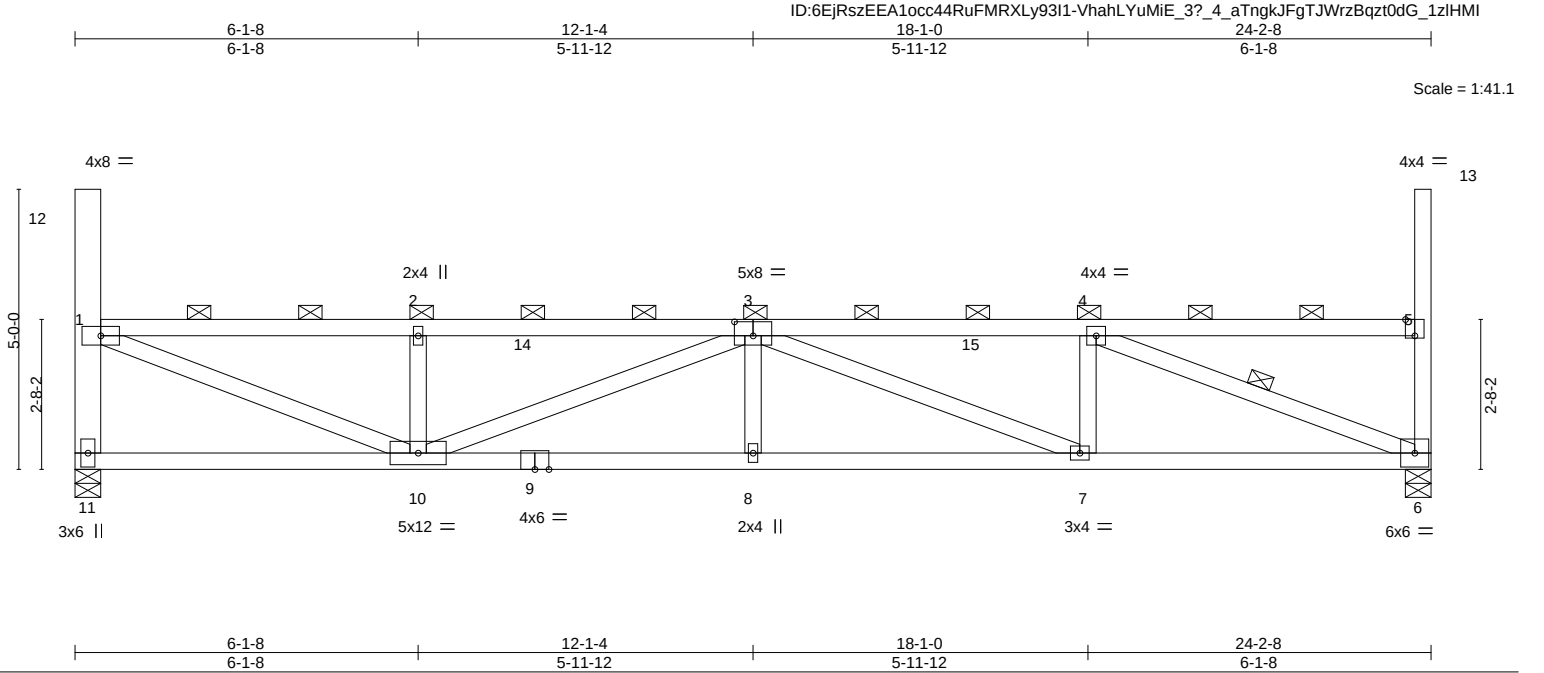


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	0.17	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.30	7-8	>962	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.07	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 103 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	2-0-0 oc purlins (3-8-12 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-10-13 oc bracing.
WEBS	1 Row at midpt 4-6

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-278(LC 10)
Max Uplift 11=-28(LC 10), 6=-27(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

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

TOP CHORD	1-11=-952/526, 1-2=-1935/1002, 2-3=-1935/1002, 3-4=-1958/1009, 4-5=-309/260
BOT CHORD	10-11=-527/533, 8-10=-1429/2523, 7-8=-1429/2523, 6-7=-968/1958
WEBS	1-10=-1096/2010, 2-10=-401/311, 3-10=-632/505, 3-7=-608/496, 4-7=-106/421, 4-6=-2038/1095

NOTES-

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T32	Flat Girder	4	2	I50215670
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:02 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-vGFpzZwF?9MesSpZFcKNLxtECXc2AbwPZ_rwbMzIHMF

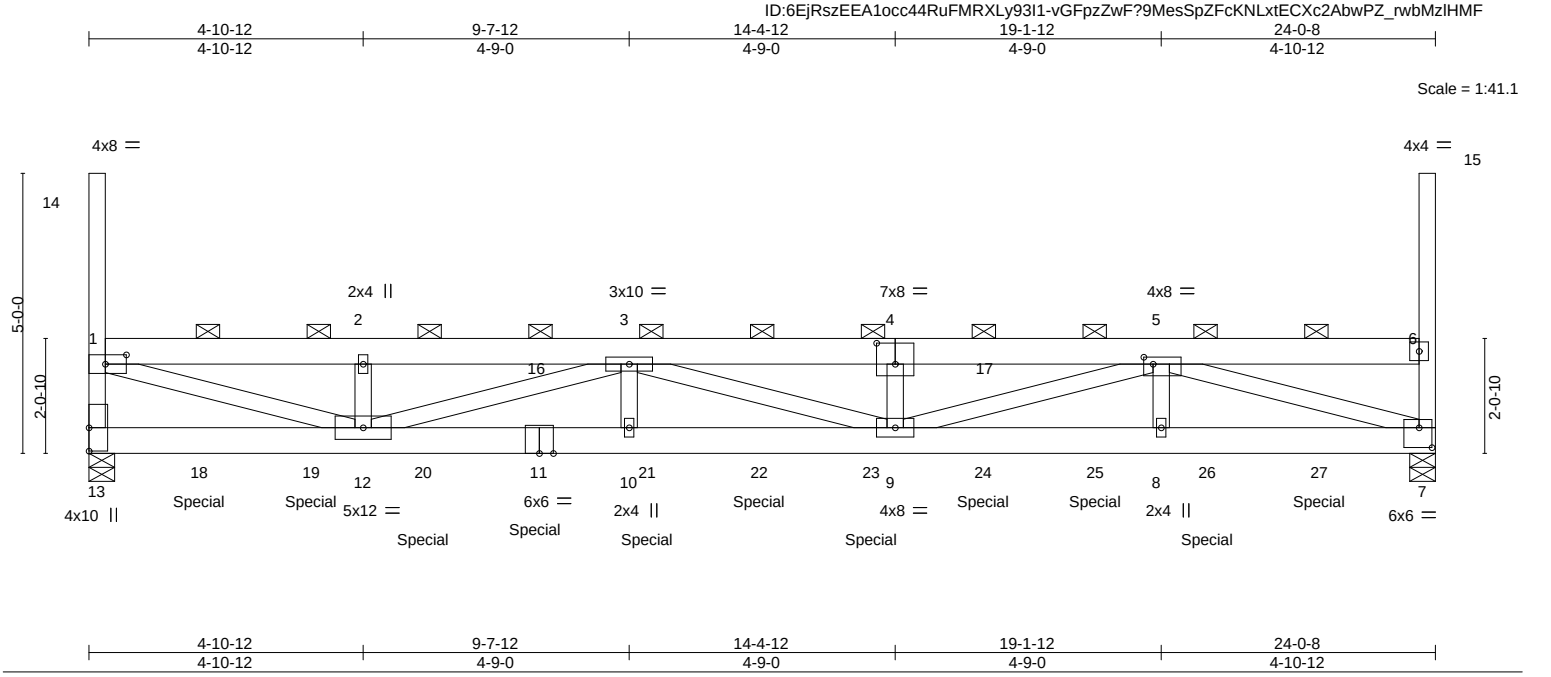


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [4:0-4-0,0-4-8], [5:0-2-0,0-1-8], [7:0-2-12,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	0.39	9-10	>737	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.36	9-10	>794	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	-0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 254 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-14, 1-6, 6-15, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-9-12 oc bracing.

REACTIONS. (size) 13=0-5-8, 7=0-5-8
Max Horz 13=-313(LC 6)
Max Uplift 13=-1572(LC 6), 7=-1517(LC 7)
Max Grav 13=1988(LC 47), 7=2026(LC 46)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-1742/1385, 1-2=-5033/4102, 2-3=-5033/4102, 3-4=-7393/6003, 4-5=-7393/6003, 5-6=-489/359
BOT CHORD 12-13=-544/599, 10-12=-5986/7457, 9-10=-5986/7457, 8-9=-3946/4947, 7-8=-3946/4947
WEBS 1-12=-3952/4932, 2-12=-286/176, 3-12=-2664/2168, 3-10=-579/719, 4-9=-278/91, 5-9=-2213/2624, 5-8=-587/733, 5-7=-4986/3902

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1572 lb uplift at joint 13 and 1517 lb uplift at joint 7.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

February 15,2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 276 lb down and 278 lb up at 1-11-12, 276 lb down and 278 lb up at 3-11-12, 276 lb down and 278 lb up at 5-11-12, 276 lb down and 278 lb up at 7-11-12, 276 lb down and 278 lb up at 9-11-12, 276 lb down and 278 lb up at 11-11-12, 276 lb down and 278 lb up at 13-11-12, 276 lb down and 278 lb up at 15-11-12, 276 lb down and 278 lb up at 17-11-12, and 276 lb down and 278 lb up at 19-11-12, and 276 lb down and 278 lb up at 21-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 16-17=-58, 7-13=-20
   Concentrated Loads (lb)
   Vert: 11=-67(B) 18=-67(B) 19=-67(B) 20=-67(B) 21=-67(B) 22=-67(B) 23=-67(B) 24=-67(B) 25=-67(B) 26=-67(B) 27=-67(B)
   Trapezoidal Loads (plf)
   Vert: 1=-73-to-16=-58, 17=-58-to-6=-73
2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-17=-60, 7-13=-20
   Concentrated Loads (lb)
   Vert: 11=-65(B) 18=-65(B) 19=-65(B) 20=-65(B) 21=-65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65(B) 26=-65(B) 27=-65(B)
   Trapezoidal Loads (plf)
   Vert: 17=-60-to-6=-75
3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-17=-50, 7-13=-20
   Concentrated Loads (lb)
   Vert: 11=-54(B) 18=-54(B) 19=-54(B) 20=-54(B) 21=-54(B) 22=-54(B) 23=-54(B) 24=-54(B) 25=-54(B) 26=-54(B) 27=-54(B)
   Trapezoidal Loads (plf)
   Vert: 17=-50-to-6=-65
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 16-17=-48, 7-13=-20
   Concentrated Loads (lb)
   Vert: 11=-56(B) 18=-56(B) 19=-56(B) 20=-56(B) 21=-56(B) 22=-56(B) 23=-56(B) 24=-56(B) 25=-56(B) 26=-56(B) 27=-56(B)
   Trapezoidal Loads (plf)
   Vert: 1=-60-to-16=-48, 17=-48-to-6=-63
5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-17=-20, 7-13=-40
   Concentrated Loads (lb)
   Vert: 11=-24(B) 18=-24(B) 19=-24(B) 20=-24(B) 21=-24(B) 22=-24(B) 23=-24(B) 24=-24(B) 25=-24(B) 26=-24(B) 27=-24(B)
   Trapezoidal Loads (plf)
   Vert: 17=-20-to-6=-35
6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-17=16, 7-13=-12
   Horz: 1-13=12, 1-14=50, 6-7=18, 6-15=33
   Concentrated Loads (lb)
   Vert: 11=270(B) 18=270(B) 19=270(B) 20=270(B) 21=270(B) 22=270(B) 23=270(B) 24=270(B) 25=270(B) 26=270(B) 27=270(B)
   Trapezoidal Loads (plf)
   Vert: 17=16-to-6=1
7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-17=16, 7-13=-12
   Horz: 1-13=-18, 1-14=-33, 6-7=-12, 6-15=-50
   Concentrated Loads (lb)
   Vert: 11=270(B) 18=270(B) 19=270(B) 20=270(B) 21=270(B) 22=270(B) 23=270(B) 24=270(B) 25=270(B) 26=270(B) 27=270(B)
   Trapezoidal Loads (plf)
   Vert: 17=16-to-6=1
8) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-17=-3, 7-13=-20
   Horz: 1-13=24, 1-14=50, 6-7=6, 6-15=33
   Concentrated Loads (lb)
   Vert: 11=278(B) 18=278(B) 19=278(B) 20=278(B) 21=278(B) 22=278(B) 23=278(B) 24=278(B) 25=278(B) 26=278(B) 27=278(B)
   Trapezoidal Loads (plf)
   Vert: 17=-3-to-6=-18
9) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-17=-3, 7-13=-20
   Horz: 1-13=-6, 1-14=-33, 6-7=-24, 6-15=-50
   Concentrated Loads (lb)
   Vert: 11=278(B) 18=278(B) 19=278(B) 20=278(B) 21=278(B) 22=278(B) 23=278(B) 24=278(B) 25=278(B) 26=278(B) 27=278(B)
   Trapezoidal Loads (plf)
   Vert: 17=-3-to-6=-18

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=7, 1-14=-33, 6-7=15, 6-15=33
Concentrated Loads (lb)
Vert: 11=270(B) 18=270(B) 19=270(B) 20=270(B) 21=270(B) 22=270(B) 23=270(B) 24=270(B) 25=270(B) 26=270(B) 27=270(B)
Trapezoidal Loads (plf)
Vert: 17=16-to-6=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=-15, 1-14=-33, 6-7=-7, 6-15=33
Concentrated Loads (lb)
Vert: 11=270(B) 18=270(B) 19=270(B) 20=270(B) 21=270(B) 22=270(B) 23=270(B) 24=270(B) 25=270(B) 26=270(B) 27=270(B)
Trapezoidal Loads (plf)
Vert: 17=16-to-6=1

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=7, 1-14=-33, 6-7=15, 6-15=33
Concentrated Loads (lb)
Vert: 11=270(B) 18=270(B) 19=270(B) 20=270(B) 21=270(B) 22=270(B) 23=270(B) 24=270(B) 25=270(B) 26=270(B) 27=270(B)
Trapezoidal Loads (plf)
Vert: 17=16-to-6=1

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=-15, 1-14=-33, 6-7=-7, 6-15=33
Concentrated Loads (lb)
Vert: 11=270(B) 18=270(B) 19=270(B) 20=270(B) 21=270(B) 22=270(B) 23=270(B) 24=270(B) 25=270(B) 26=270(B) 27=270(B)
Trapezoidal Loads (plf)
Vert: 17=16-to-6=1

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-3, 7-13=-20
Horz: 1-13=19, 1-14=-33, 6-7=4, 6-15=33
Concentrated Loads (lb)
Vert: 11=278(B) 18=278(B) 19=278(B) 20=278(B) 21=278(B) 22=278(B) 23=278(B) 24=278(B) 25=278(B) 26=278(B) 27=278(B)
Trapezoidal Loads (plf)
Vert: 17=-3-to-6=-18

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-3, 7-13=-20
Horz: 1-13=-4, 1-14=-33, 6-7=-19, 6-15=33
Concentrated Loads (lb)
Vert: 11=278(B) 18=278(B) 19=278(B) 20=278(B) 21=278(B) 22=278(B) 23=278(B) 24=278(B) 25=278(B) 26=278(B) 27=278(B)
Trapezoidal Loads (plf)
Vert: 17=-3-to-6=-18

16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-17=-20, 7-13=-20
Concentrated Loads (lb)
Vert: 11=-23(B) 18=-23(B) 19=-23(B) 20=-23(B) 21=-23(B) 22=-23(B) 23=-23(B) 24=-23(B) 25=-23(B) 26=-23(B) 27=-23(B)
Trapezoidal Loads (plf)
Vert: 17=-20-to-6=-35

17) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=18, 1-14=37, 6-7=5, 6-15=25
Concentrated Loads (lb)
Vert: 11=190(B) 18=190(B) 19=190(B) 20=190(B) 21=190(B) 22=190(B) 23=190(B) 24=190(B) 25=190(B) 26=190(B) 27=190(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-36-to-6=-51

18) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=-5, 1-14=-25, 6-7=-18, 6-15=-37
Concentrated Loads (lb)
Vert: 11=190(B) 18=190(B) 19=190(B) 20=190(B) 21=190(B) 22=190(B) 23=190(B) 24=190(B) 25=190(B) 26=190(B) 27=190(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-36-to-6=-51

19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=14, 1-14=-25, 6-7=3, 6-15=25
Concentrated Loads (lb)
Vert: 11=190(B) 18=190(B) 19=190(B) 20=190(B) 21=190(B) 22=190(B) 23=190(B) 24=190(B) 25=190(B) 26=190(B) 27=190(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-36-to-6=-51

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=-3, 1-14=-25, 6-7=-14, 6-15=25
Concentrated Loads (lb)
Vert: 11=190(B) 18=190(B) 19=190(B) 20=190(B) 21=190(B) 22=190(B) 23=190(B) 24=190(B) 25=190(B) 26=190(B) 27=190(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-36-to-6=-51

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-38, 7-13=-20
Horz: 1-13=18, 1-14=37, 6-7=5, 6-15=25
Concentrated Loads (lb)
Vert: 11=183(B) 18=183(B) 19=183(B) 20=183(B) 21=183(B) 22=183(B) 23=183(B) 24=183(B) 25=183(B) 26=183(B) 27=183(B)
Trapezoidal Loads (plf)
Vert: 17=-38-to-6=-53

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-38, 7-13=-20
Horz: 1-13=-5, 1-14=-25, 6-7=-18, 6-15=-37
Concentrated Loads (lb)
Vert: 11=183(B) 18=183(B) 19=183(B) 20=183(B) 21=183(B) 22=183(B) 23=183(B) 24=183(B) 25=183(B) 26=183(B) 27=183(B)
Trapezoidal Loads (plf)
Vert: 17=-38-to-6=-53

23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-38, 7-13=-20
Horz: 1-13=14, 1-14=-25, 6-7=3, 6-15=25
Concentrated Loads (lb)
Vert: 11=183(B) 18=183(B) 19=183(B) 20=183(B) 21=183(B) 22=183(B) 23=183(B) 24=183(B) 25=183(B) 26=183(B) 27=183(B)
Trapezoidal Loads (plf)
Vert: 17=-38-to-6=-53

24) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-38, 7-13=-20
Horz: 1-13=-3, 1-14=-25, 6-7=-14, 6-15=25
Concentrated Loads (lb)
Vert: 11=183(B) 18=183(B) 19=183(B) 20=183(B) 21=183(B) 22=183(B) 23=183(B) 24=183(B) 25=183(B) 26=183(B) 27=183(B)
Trapezoidal Loads (plf)
Vert: 17=-38-to-6=-53

25) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 16-17=-60, 7-13=-20
Concentrated Loads (lb)
Vert: 11=-67(B) 18=-67(B) 19=-67(B) 20=-67(B) 21=-67(B) 22=-67(B) 23=-67(B) 24=-67(B) 25=-67(B) 26=-67(B) 27=-67(B)
Trapezoidal Loads (plf)
Vert: 1=-75-to-16=-60, 17=-60-to-6=-75

26) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-12, 7-13=-12
Horz: 1-13=16, 1-14=16
Concentrated Loads (lb)
Vert: 11=264(B) 18=264(B) 19=264(B) 20=264(B) 21=264(B) 22=264(B) 23=264(B) 24=264(B) 25=264(B) 26=264(B) 27=264(B)
Trapezoidal Loads (plf)
Vert: 17=-12-to-6=-27

27) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-12, 7-13=-12
Horz: 6-7=-16, 6-15=-16
Concentrated Loads (lb)
Vert: 11=264(B) 18=264(B) 19=264(B) 20=264(B) 21=264(B) 22=264(B) 23=264(B) 24=264(B) 25=264(B) 26=264(B) 27=264(B)
Trapezoidal Loads (plf)
Vert: 17=-12-to-6=-27

28) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-17=-60, 7-13=-20

Continued on page 5

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 11=-65(B) 18=-65(B) 19=-65(B) 20=-65(B) 21=-65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65(B) 26=-65(B) 27=-65(B)
Trapezoidal Loads (plf)
Vert: 17=-60-to-6=-75

29) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-17=-60, 7-13=-20
Concentrated Loads (lb)
Vert: 11=-65(B) 18=-65(B) 19=-65(B) 20=-65(B) 21=-65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65(B) 26=-65(B) 27=-65(B)
Trapezoidal Loads (plf)
Vert: 17=-60-to-6=-75

30) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-17=-50, 7-13=-20
Concentrated Loads (lb)
Vert: 11=-54(B) 18=-54(B) 19=-54(B) 20=-54(B) 21=-54(B) 22=-54(B) 23=-54(B) 24=-54(B) 25=-54(B) 26=-54(B) 27=-54(B)
Trapezoidal Loads (plf)
Vert: 17=-50-to-6=-65

31) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-17=-50, 7-13=-20
Concentrated Loads (lb)
Vert: 11=-54(B) 18=-54(B) 19=-54(B) 20=-54(B) 21=-54(B) 22=-54(B) 23=-54(B) 24=-54(B) 25=-54(B) 26=-54(B) 27=-54(B)
Trapezoidal Loads (plf)
Vert: 17=-50-to-6=-65

32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=12, 1-14=50, 6-7=18, 6-15=33
Concentrated Loads (lb)
Vert: 11=-276(B) 18=-276(B) 19=-276(B) 20=-276(B) 21=-276(B) 22=-276(B) 23=-276(B) 24=-276(B) 25=-276(B) 26=-276(B) 27=-276(B)
Trapezoidal Loads (plf)
Vert: 17=16-to-6=1

33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=-18, 1-14=-33, 6-7=-12, 6-15=-50
Concentrated Loads (lb)
Vert: 11=-276(B) 18=-276(B) 19=-276(B) 20=-276(B) 21=-276(B) 22=-276(B) 23=-276(B) 24=-276(B) 25=-276(B) 26=-276(B) 27=-276(B)
Trapezoidal Loads (plf)
Vert: 17=16-to-6=1

34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-3, 7-13=-20
Horz: 1-13=24, 1-14=50, 6-7=6, 6-15=33
Concentrated Loads (lb)
Vert: 11=-268(B) 18=-268(B) 19=-268(B) 20=-268(B) 21=-268(B) 22=-268(B) 23=-268(B) 24=-268(B) 25=-268(B) 26=-268(B) 27=-268(B)
Trapezoidal Loads (plf)
Vert: 17=-3-to-6=-18

35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-3, 7-13=-20
Horz: 1-13=-6, 1-14=-33, 6-7=-24, 6-15=-50
Concentrated Loads (lb)
Vert: 11=-268(B) 18=-268(B) 19=-268(B) 20=-268(B) 21=-268(B) 22=-268(B) 23=-268(B) 24=-268(B) 25=-268(B)
26=-268(B) 27=-268(B)
Trapezoidal Loads (plf)
Vert: 17=-3-to-6=-18

36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=7, 1-14=-33, 6-7=15, 6-15=33
Concentrated Loads (lb)
Vert: 11=-276(B) 18=-276(B) 19=-276(B) 20=-276(B) 21=-276(B) 22=-276(B) 23=-276(B) 24=-276(B) 25=-276(B)
26=-276(B) 27=-276(B)
Trapezoidal Loads (plf)
Vert: 17=16-to-6=1

37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=-15, 1-14=-33, 6-7=-7, 6-15=33
Concentrated Loads (lb)
Vert: 11=-276(B) 18=-276(B) 19=-276(B) 20=-276(B) 21=-276(B) 22=-276(B) 23=-276(B) 24=-276(B) 25=-276(B)
26=-276(B) 27=-276(B)
Trapezoidal Loads (plf)
Vert: 17=16-to-6=1

Continued on page 6

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=7, 1-14=-33, 6-7=15, 6-15=33
Concentrated Loads (lb)
Vert: 11=-276(B) 18=-276(B) 19=-276(B) 20=-276(B) 21=-276(B) 22=-276(B) 23=-276(B) 24=-276(B) 25=-276(B) 26=-276(B) 27=-276(B)
Trapezoidal Loads (plf)
Vert: 17=16-to-6=1

39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=-15, 1-14=-33, 6-7=-7, 6-15=33
Concentrated Loads (lb)
Vert: 11=-276(B) 18=-276(B) 19=-276(B) 20=-276(B) 21=-276(B) 22=-276(B) 23=-276(B) 24=-276(B) 25=-276(B) 26=-276(B) 27=-276(B)
Trapezoidal Loads (plf)
Vert: 17=16-to-6=1

40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-3, 7-13=-20
Horz: 1-13=19, 1-14=-33, 6-7=4, 6-15=33
Concentrated Loads (lb)
Vert: 11=-268(B) 18=-268(B) 19=-268(B) 20=-268(B) 21=-268(B) 22=-268(B) 23=-268(B) 24=-268(B) 25=-268(B) 26=-268(B) 27=-268(B)
Trapezoidal Loads (plf)
Vert: 17=-3-to-6=-18

41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-3, 7-13=-20
Horz: 1-13=-4, 1-14=-33, 6-7=-19, 6-15=33
Concentrated Loads (lb)
Vert: 11=-268(B) 18=-268(B) 19=-268(B) 20=-268(B) 21=-268(B) 22=-268(B) 23=-268(B) 24=-268(B) 25=-268(B) 26=-268(B) 27=-268(B)
Trapezoidal Loads (plf)
Vert: 17=-3-to-6=-18

42) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=18, 1-14=37, 6-7=5, 6-15=25
Concentrated Loads (lb)
Vert: 11=-224(B) 18=-224(B) 19=-224(B) 20=-224(B) 21=-224(B) 22=-224(B) 23=-224(B) 24=-224(B) 25=-224(B) 26=-224(B) 27=-224(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-36-to-6=-51

43) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=-5, 1-14=-25, 6-7=-18, 6-15=-37
Concentrated Loads (lb)
Vert: 11=-224(B) 18=-224(B) 19=-224(B) 20=-224(B) 21=-224(B) 22=-224(B) 23=-224(B) 24=-224(B) 25=-224(B) 26=-224(B) 27=-224(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-36-to-6=-51

44) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=14, 1-14=-25, 6-7=3, 6-15=25
Concentrated Loads (lb)
Vert: 11=-224(B) 18=-224(B) 19=-224(B) 20=-224(B) 21=-224(B) 22=-224(B) 23=-224(B) 24=-224(B) 25=-224(B)
26=-224(B) 27=-224(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-36-to-6=-51

45) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=-3, 1-14=-25, 6-7=-14, 6-15=25
Concentrated Loads (lb)
Vert: 11=-224(B) 18=-224(B) 19=-224(B) 20=-224(B) 21=-224(B) 22=-224(B) 23=-224(B) 24=-224(B) 25=-224(B)
26=-224(B) 27=-224(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-36-to-6=-51

46) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-38, 7-13=-20
Horz: 1-13=18, 1-14=37, 6-7=5, 6-15=25
Concentrated Loads (lb)
Vert: 11=-230(B) 18=-230(B) 19=-230(B) 20=-230(B) 21=-230(B) 22=-230(B) 23=-230(B) 24=-230(B) 25=-230(B)
26=-230(B) 27=-230(B)
Trapezoidal Loads (plf)
Vert: 17=-38-to-6=-53

Continued on page 7

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

47) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-38, 7-13=-20
Horz: 1-13=-5, 1-14=-25, 6-7=-18, 6-15=-37
Concentrated Loads (lb)
Vert: 11=-230(B) 18=-230(B) 19=-230(B) 20=-230(B) 21=-230(B) 22=-230(B) 23=-230(B) 24=-230(B) 25=-230(B) 26=-230(B) 27=-230(B)
Trapezoidal Loads (plf)
Vert: 17=-38-to-6=-53

48) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-38, 7-13=-20
Horz: 1-13=14, 1-14=-25, 6-7=3, 6-15=25
Concentrated Loads (lb)
Vert: 11=-230(B) 18=-230(B) 19=-230(B) 20=-230(B) 21=-230(B) 22=-230(B) 23=-230(B) 24=-230(B) 25=-230(B) 26=-230(B) 27=-230(B)
Trapezoidal Loads (plf)
Vert: 17=-38-to-6=-53

49) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-38, 7-13=-20
Horz: 1-13=-3, 1-14=-25, 6-7=-14, 6-15=25
Concentrated Loads (lb)
Vert: 11=-230(B) 18=-230(B) 19=-230(B) 20=-230(B) 21=-230(B) 22=-230(B) 23=-230(B) 24=-230(B) 25=-230(B) 26=-230(B) 27=-230(B)
Trapezoidal Loads (plf)
Vert: 17=-38-to-6=-53

50) Reversal: Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-12, 7-13=-12
Horz: 1-13=16, 1-14=16
Concentrated Loads (lb)
Vert: 11=-269(B) 18=-269(B) 19=-269(B) 20=-269(B) 21=-269(B) 22=-269(B) 23=-269(B) 24=-269(B) 25=-269(B) 26=-269(B) 27=-269(B)
Trapezoidal Loads (plf)
Vert: 17=-12-to-6=-27

51) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-12, 7-13=-12
Horz: 6-7=-16, 6-15=-16
Concentrated Loads (lb)
Vert: 11=-269(B) 18=-269(B) 19=-269(B) 20=-269(B) 21=-269(B) 22=-269(B) 23=-269(B) 24=-269(B) 25=-269(B) 26=-269(B) 27=-269(B)
Trapezoidal Loads (plf)
Vert: 17=-12-to-6=-27

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T33	Flat	4	1	I50215671
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:04 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-reNaOFyVXmcL5myyN1NrQMyTPKAVeP7i0IK1fEzIHMD

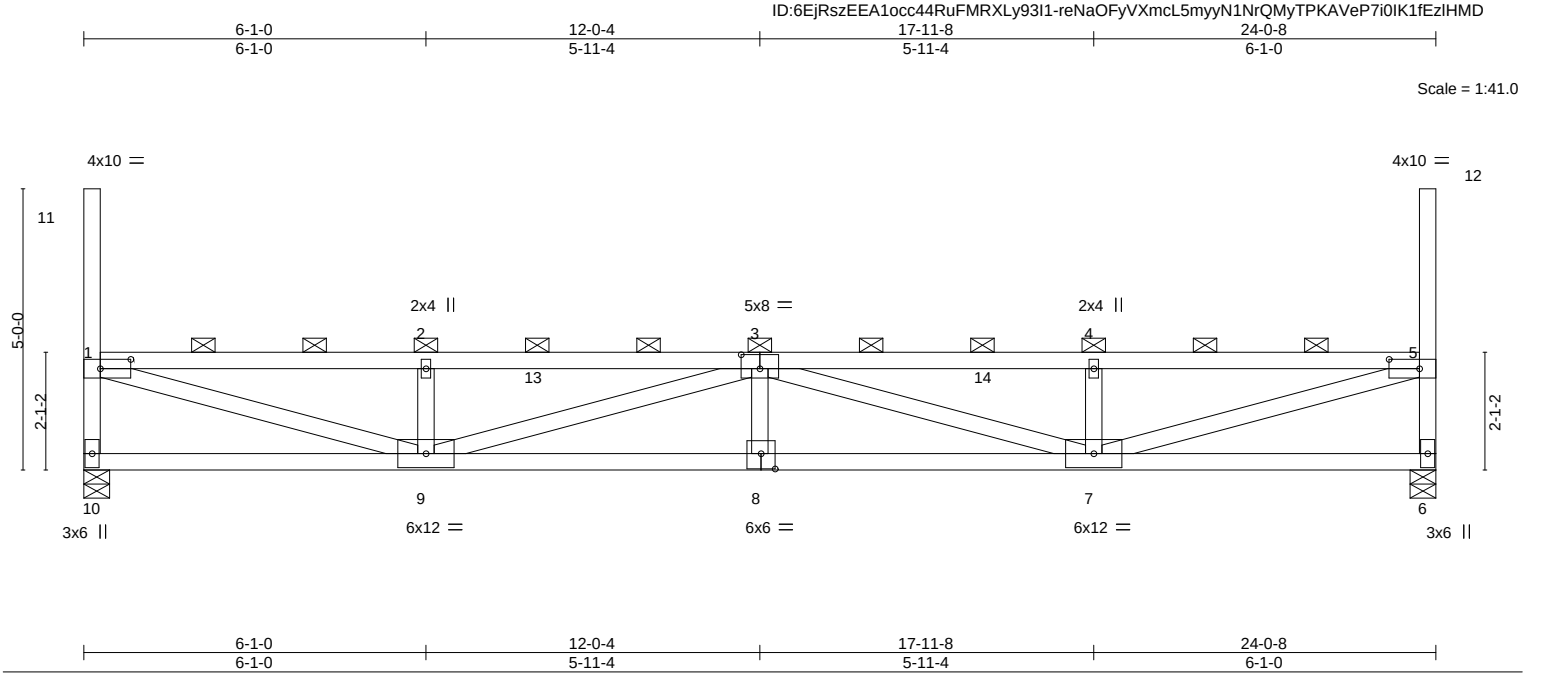


Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [3:0-4-0,0-3-0], [5:0-6-8,0-2-0], [8:0-3-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	0.28	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.49	8-9	>576	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.07	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

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

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

REACTIONS. (size) 10=0-5-8, 6=0-5-8
Max Horz 10=-309(LC 10)
Max Uplift 10=-31(LC 10), 6=-31(LC 11)
Max Grav 10=1009(LC 2), 6=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-945/532, 1-2=-2547/1323, 2-3=-2547/1323, 3-4=-2547/1320, 4-5=-2547/1320, 5-6=-945/533
BOT CHORD 9-10=-659/672, 8-9=-1818/3300, 7-8=-1817/3302
WEBS 1-9=-1396/2556, 2-9=-400/320, 3-9=-788/661, 3-7=-789/649, 4-7=-400/317, 5-7=-1403/2556

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

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-58, 6-10=-20

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-13=-58, 14=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-13=-60, 14=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-50, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-13=-50, 14=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-48, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-13=-48, 14=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 13-14=-20, 6-10=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-13=-20, 14=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=54, 6-10=-12
Horz: 1-10=19, 1-11=87, 5-6=34, 5-12=55
Trapezoidal Loads (plf)
Vert: 1=39-to-13=54, 14=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=54, 6-10=-12
Horz: 1-10=-34, 1-11=-55, 5-6=-19, 5-12=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-13=54, 14=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-32, 6-10=-20
Horz: 1-10=-23, 1-11=36, 5-6=-31, 5-12=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-32, 14=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-32, 6-10=-20
Horz: 1-10=31, 1-11=-55, 5-6=23, 5-12=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-32, 14=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=12, 1-11=50, 5-6=18, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=-18, 1-11=-33, 5-6=-12, 5-12=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-3, 6-10=-20
Horz: 1-10=24, 1-11=50, 5-6=6, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-13=-3, 14=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-3, 6-10=-20
Horz: 1-10=-6, 1-11=-33, 5-6=-24, 5-12=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-13=-3, 14=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=7, 1-11=-33, 5-6=15, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=-15, 1-11=-33, 5-6=-7, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=7, 1-11=-33, 5-6=15, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=-15, 1-11=-33, 5-6=-7, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-3, 6-10=-20
Horz: 1-10=19, 1-11=-33, 5-6=4, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-13=-3, 14=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-3, 6-10=-20
Horz: 1-10=-4, 1-11=-33, 5-6=-19, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-13=-3, 14=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 13-14=-20, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-13=-20, 14=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=18, 1-11=37, 5-6=5, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-13=-36, 14=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=-5, 1-11=-25, 5-6=-18, 5-12=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-13=-36, 14=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=14, 1-11=-25, 5-6=3, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-13=-36, 14=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=-3, 1-11=-25, 5-6=-14, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-13=-36, 14=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-38, 6-10=-20
Horz: 1-10=18, 1-11=37, 5-6=5, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-13=-38, 14=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-38, 6-10=-20
Horz: 1-10=-5, 1-11=-25, 5-6=-18, 5-12=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-13=-38, 14=-38-to-5=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-38, 6-10=-20
Horz: 1-10=14, 1-11=-25, 5-6=3, 5-12=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-13=-38, 14=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-38, 6-10=-20
Horz: 1-10=-3, 1-11=-25, 5-6=-14, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-13=-38, 14=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-13=-60, 14=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-28, 6-10=-12
Horz: 1-10=-16, 1-11=33, 5-6=-16, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-13=-28, 14=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=4, 6-10=-12
Horz: 1-10=16, 1-11=33, 5-6=16, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-13=4, 14=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-13=-60, 14=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-13=-60, 14=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-50, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-13=-50, 14=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-50, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-13=-50, 14=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T34	Flat	4	1	I50215672
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:05 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-Krxybbz7H4kCjvX8xku4zaVeXkW5NyirFy4aBhzIHMC

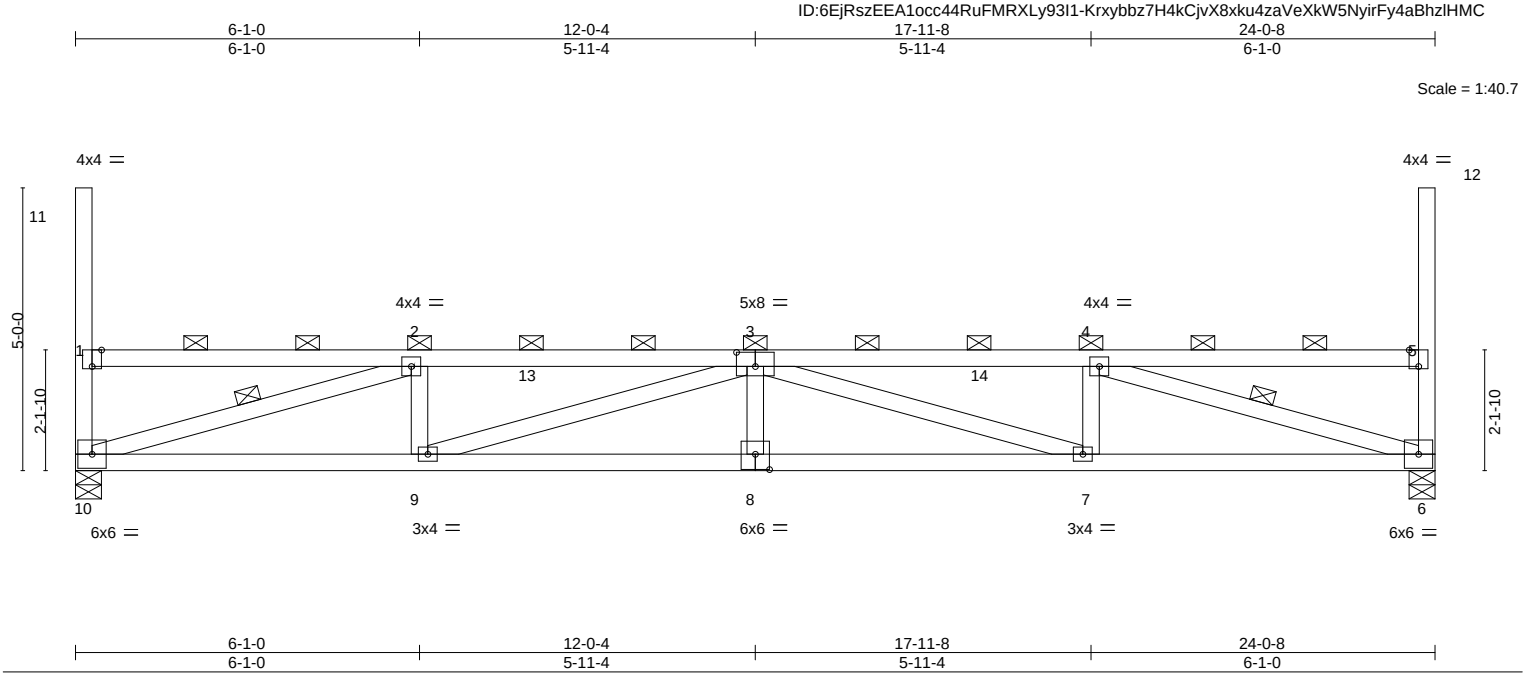


Plate Offsets (X,Y)-- [1:0-2-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge], [8:0-3-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	0.28	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.47	7-8	>604	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.11	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD 2-0-0 oc purlins (3-4-11 max.): 1-11, 1-5, 5-12, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-3-0 oc bracing.
WEBS 1 Row at midpt 2-10, 4-6

REACTIONS. (size) 10=0-5-8, 6=0-5-8
Max Horz 10=-306(LC 10)
Max Uplift 10=-90(LC 10), 6=-90(LC 11)
Max Grav 10=1009(LC 29), 6=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-423/363, 2-3=-2492/1383, 3-4=-2492/1385, 4-5=-422/362
BOT CHORD 9-10=-1680/2492, 8-9=-1863/3227, 7-8=-1863/3227, 6-7=-1264/2492
WEBS 2-10=-2508/1457, 2-9=-108/422, 3-9=-781/631, 3-7=-781/627, 4-7=-107/422, 4-6=-2508/1454

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

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-58, 6-10=-20

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-73-to-13=-58, 14=-58-to-5=-73
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-48, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-13=-48, 14=-48-to-5=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=18, 1-11=37, 5-6=5, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-36, 14=-36-to-5=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=-5, 1-11=-25, 5-6=-18, 5-12=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-36, 14=-36-to-5=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=14, 1-11=-25, 5-6=3, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-36, 14=-36-to-5=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=-3, 1-11=-25, 5-6=-14, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-36, 14=-36-to-5=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-13=-60, 14=-60-to-5=-75

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T35	Flat	4	1	I50215673
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:06 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-o1VKpx_l2Os3L36KUSPJWn2of8sf6P5?Ucp8k7zIHMB

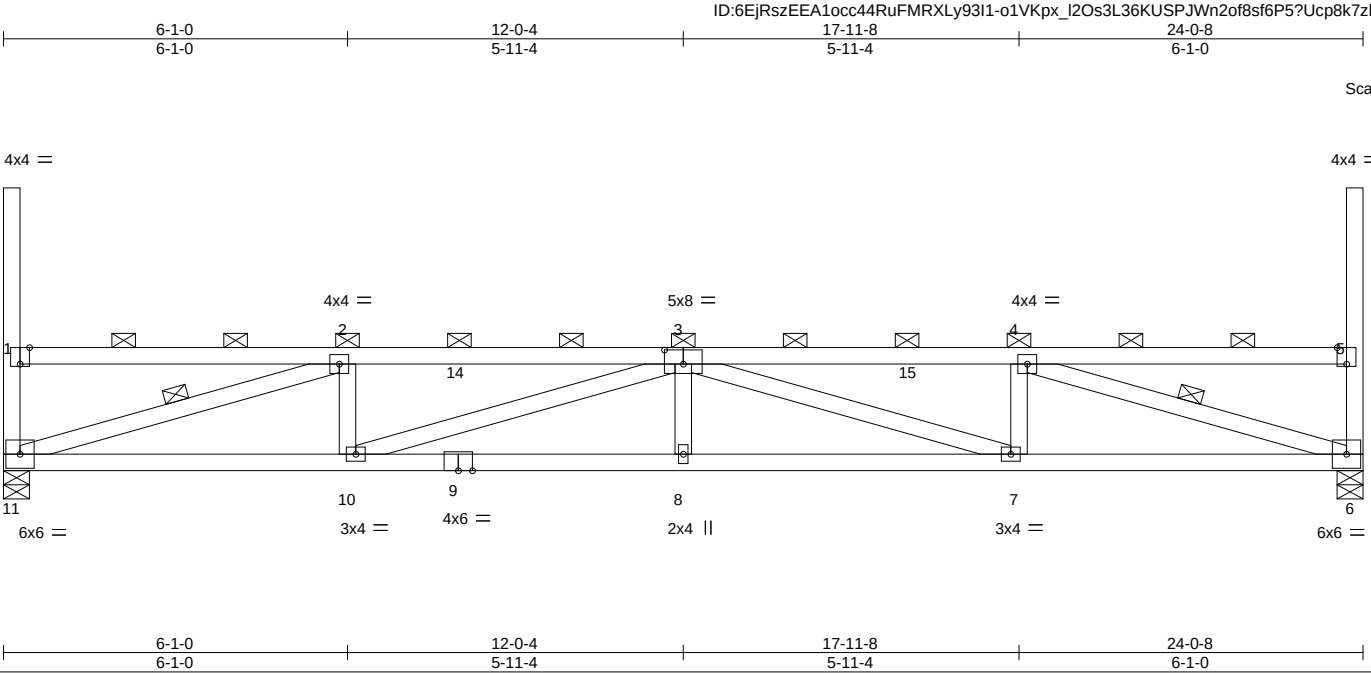


Plate Offsets (X,Y)-- [1:0-2-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	0.26	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.45	7-8	>630	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.11	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 97 lb	FT = 20%

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

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

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-304(LC 10)
Max Uplift 11=-31(LC 10), 6=-30(LC 11)
Max Grav 11=1009(LC 2), 6=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-422/343, 2-3=-2438/1265, 3-4=-2439/1266, 4-5=-422/343
BOT CHORD 10-11=-1559/2438, 8-10=-1749/3157, 7-8=-1749/3157, 6-7=-1153/2439
WEBS 2-11=-2461/1346, 2-10=-112/418, 3-10=-754/628, 3-7=-753/625, 4-7=-112/418, 4-6=-2461/1343

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T36	Flat	4	1	I50215674
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:13 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-5NQ_HK38PXl4h88hPQ1ylGq0GzFcFay15B0?TDzlHM4

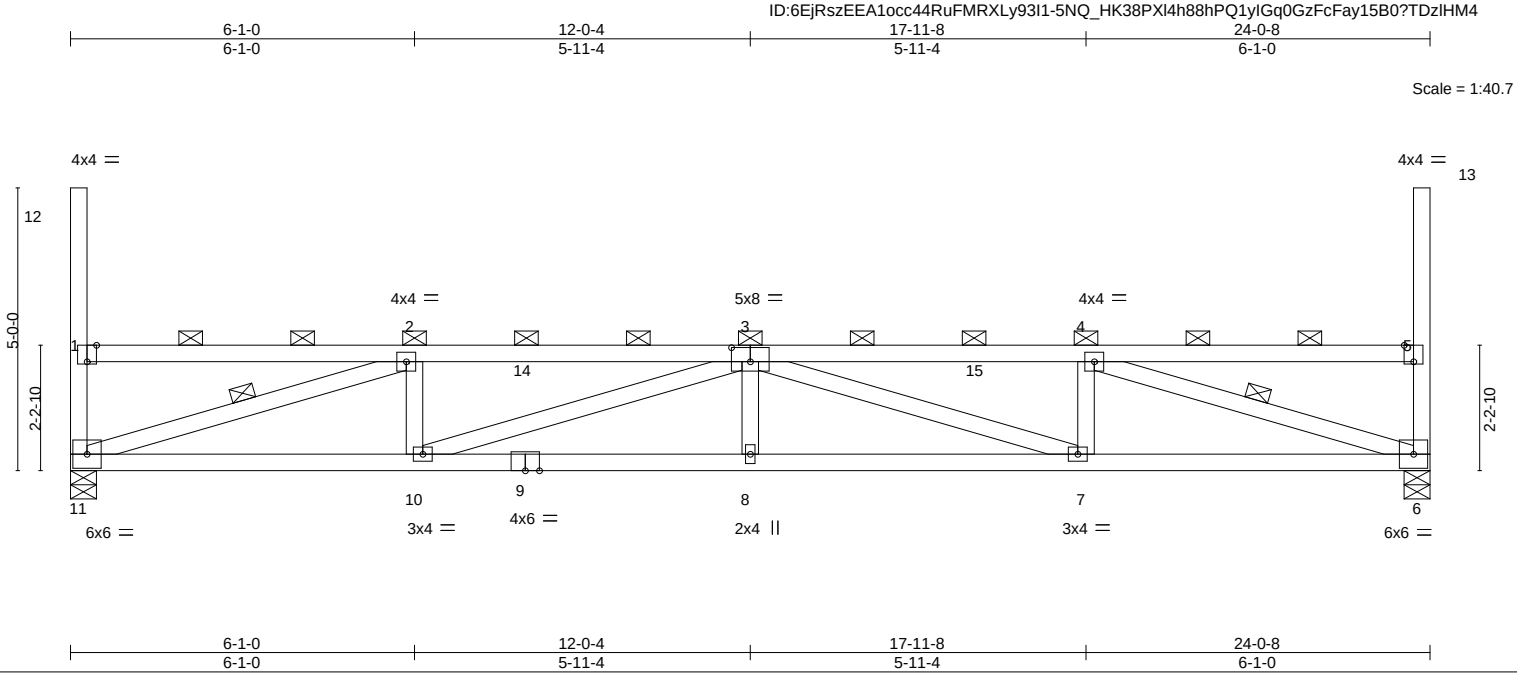


Plate Offsets (X,Y)-- [1:0-2-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	0.25	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.43	7-8	>657	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.50	Horz(CT)	0.11	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 97 lb	FT = 20%

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

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

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=302(LC 13)
Max Uplift 11=-30(LC 10), 6=-30(LC 11)
Max Grav 11=1009(LC 2), 6=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-411/335, 2-3=-2387/1238, 3-4=-2388/1240, 4-5=-410/334
BOT CHORD 10-11=-1530/2387, 8-10=-1716/3090, 7-8=-1716/3090, 6-7=-1134/2388
WEBS 2-11=-2415/1320, 2-10=-112/418, 3-10=-739/615, 3-7=-738/612, 4-7=-111/418, 4-6=-2416/1317

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T37	Flat	4	1	I50215675
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:15 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-1mYki04Px9?nwSI3Wr3QNhwM7myMjOkKYVV6Y5zIHM2

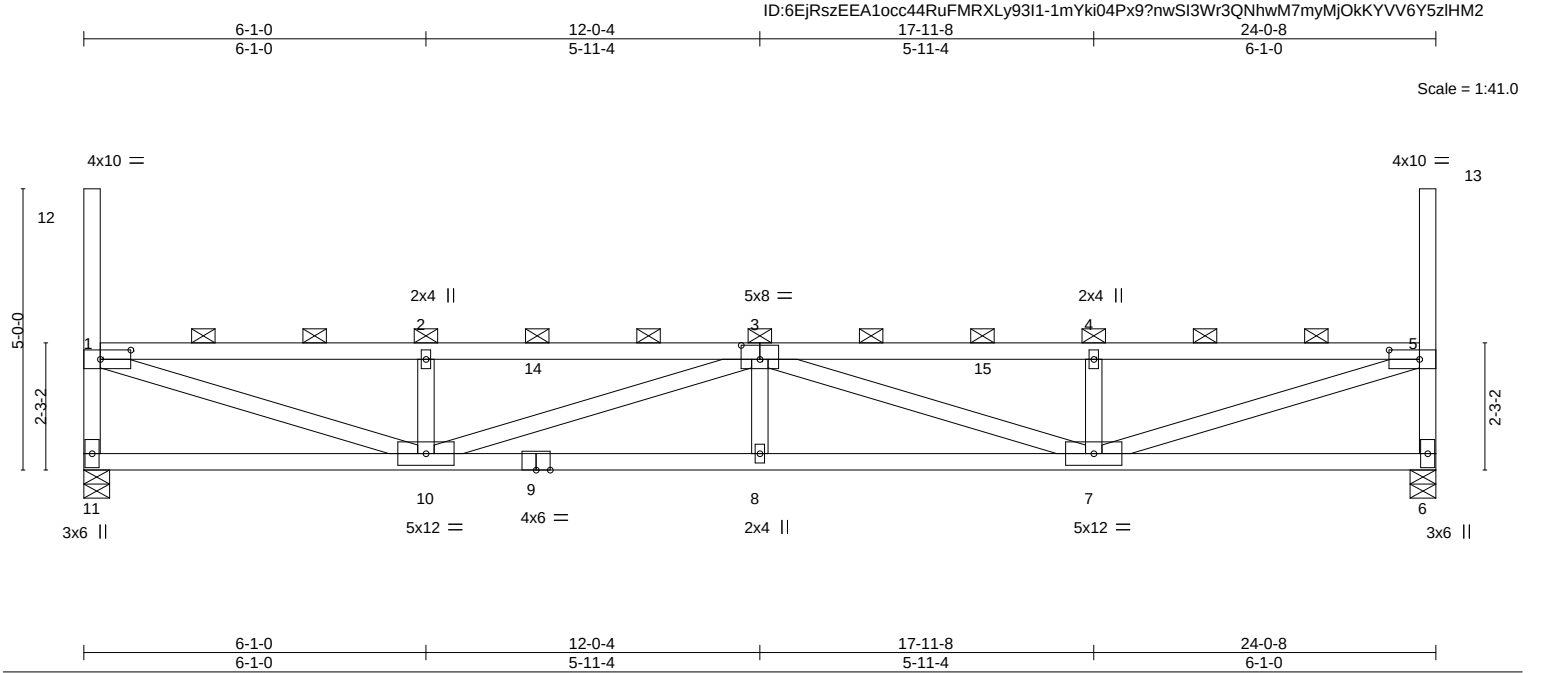


Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [3:0-4-0,0-3-0], [5:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.24	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.42	7-8	>680	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.06	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 98 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (3-2-10 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-5-14 oc bracing.

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=300(LC 11)
Max Uplift 11=-30(LC 10), 6=-30(LC 11)
Max Grav 11=1009(LC 2), 6=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-946/531, 1-2=-2337/1214, 2-3=-2337/1214, 3-4=-2338/1212, 4-5=-2338/1212, 5-6=-946/532
BOT CHORD 10-11=-614/624, 8-10=-1684/3026, 7-8=-1684/3026
WEBS 1-10=-1291/2370, 2-10=-402/320, 3-10=-726/606, 3-7=-725/597, 4-7=-402/317, 5-7=-1296/2371

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T38	Flat	4	1	I50215676
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:17 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-z8fU7i6fTmFV9lSSeF5uS6?izad6BIRc0p_Dc_zIHM0

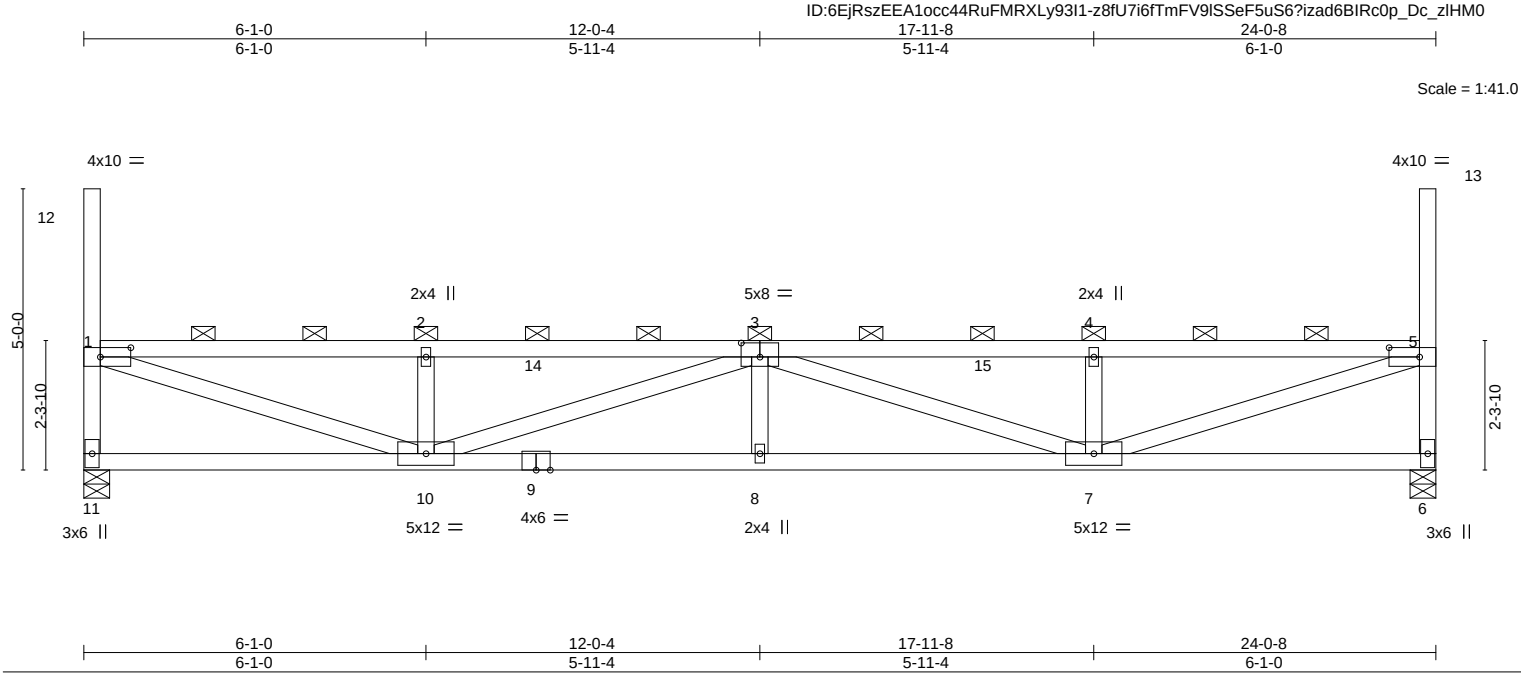


Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [3:0-4-0,0-3-0], [5:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	0.23	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.40	7-8	>707	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.06	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 98 lb	FT = 20%
BCDL	10.0											

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

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

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-298(LC 12)
Max Uplift 11=-30(LC 10), 6=-30(LC 11)
Max Grav 11=1009(LC 2), 6=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-947/531, 1-2=-2290/1190, 2-3=-2290/1190, 3-4=-2290/1187, 4-5=-2290/1187, 5-6=-947/532
BOT CHORD 10-11=-603/613, 8-10=-1654/2964, 7-8=-1654/2964
WEBS 1-10=-1267/2328, 2-10=-402/320, 3-10=-712/593, 3-7=-711/585, 4-7=-403/317, 5-7=-1272/2329

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T39	Flat	4	1	I50215677
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:18 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-RLDtK17HE4NMnv1eBzd7?JYu3_zdwrXmETkm9QzIHM?

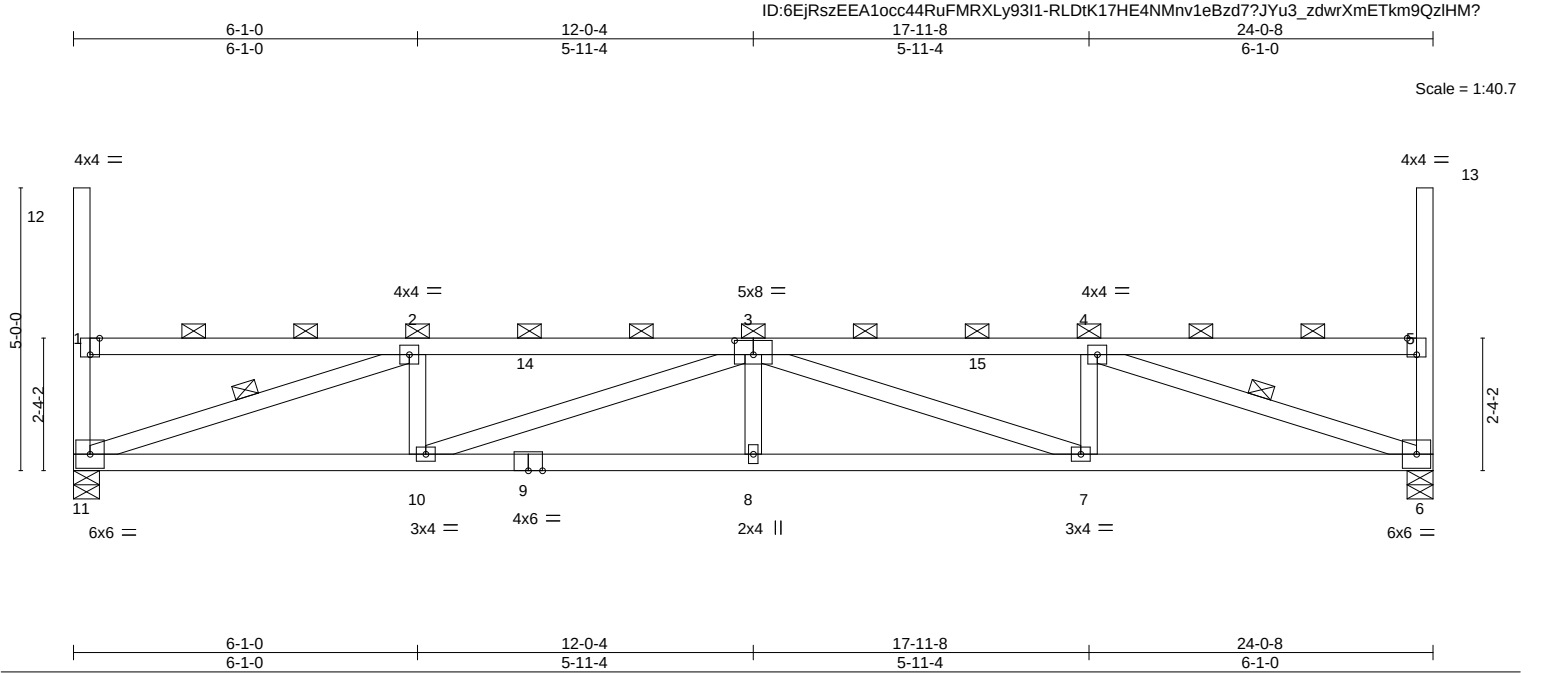


Plate Offsets (X,Y)-- [1:0-2-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	0.23	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.39	7-8	>738	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.10	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 98 lb	FT = 20%

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

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

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-295(LC 10)
Max Uplift 11=-30(LC 10), 6=-30(LC 11)
Max Grav 11=1009(LC 2), 6=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-380/311, 2-3=-2246/1165, 3-4=-2246/1166, 4-5=-379/311
BOT CHORD 10-11=-1448/2246, 8-10=-1626/2904, 7-8=-1626/2904, 6-7=-1082/2246
WEBS 2-11=-2290/1249, 2-10=-111/419, 3-10=-697/578, 3-7=-696/575, 4-7=-111/419, 4-6=-2290/1246

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T40	Flat	4	1	I50215678
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:20 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-NjLdlj8Xlhd40DB1JOfb4kdEvnfLOl83inDtCJzlHLz

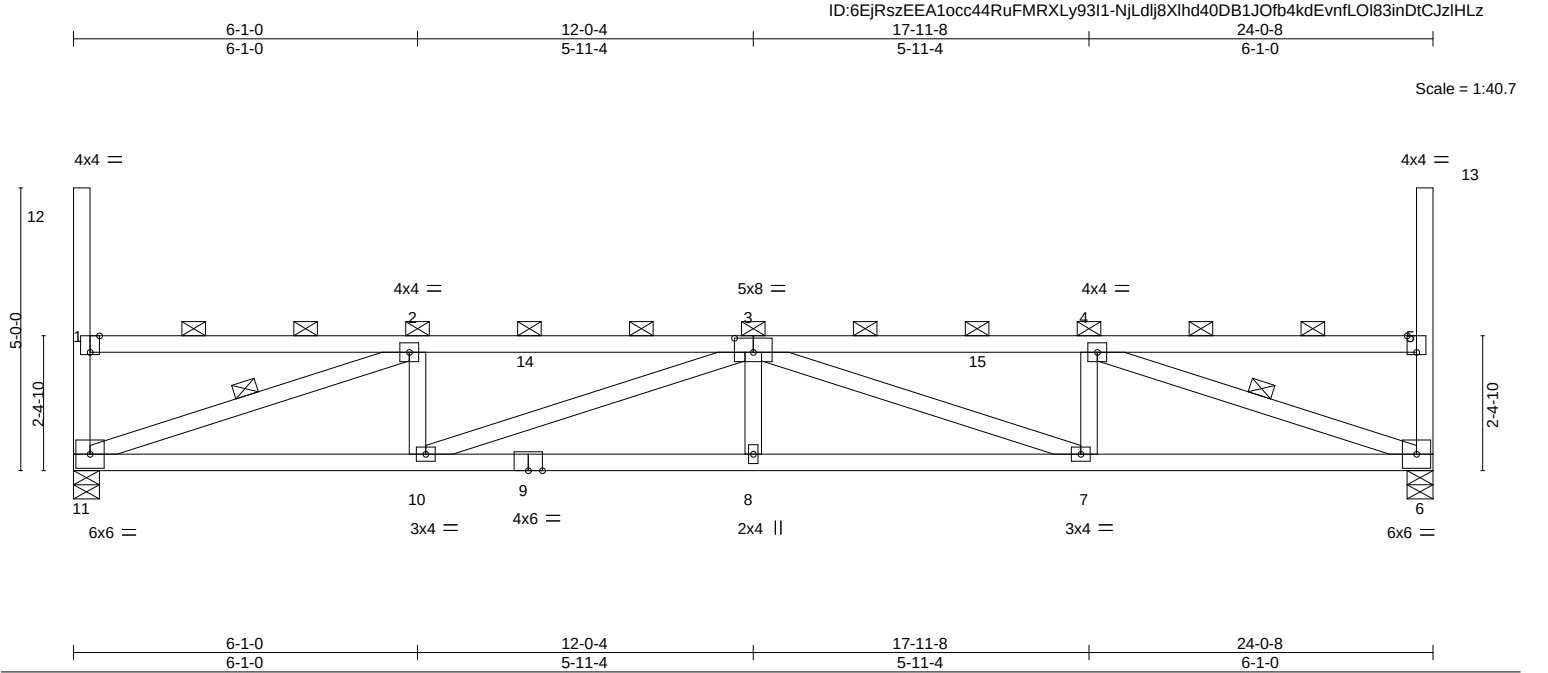


Plate Offsets (X,Y)-- [1:0-2-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	0.22	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.37	7-8	>766	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.10	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 98 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (3-8-0 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-6 oc bracing.
WEBS 1 Row at midpt 2-11, 4-6

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=293(LC 13)
Max Uplift 11=-30(LC 10), 6=-30(LC 11)
Max Grav 11=1009(LC 2), 6=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-370/304, 2-3=-2202/1142, 3-4=-2203/1143, 4-5=-370/304
BOT CHORD 10-11=-1423/2202, 8-10=-1597/2847, 7-8=-1597/2847, 6-7=-1065/2203
WEBS 2-11=-2251/1227, 2-10=-111/419, 3-10=-684/566, 3-7=-684/564, 4-7=-110/419, 4-6=-2252/1224

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T41	Flat	4	1	I50215679
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:22 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-K6TNAPAoHItoGXKPQph399ialbM3sfkM95i_HBzIHLx

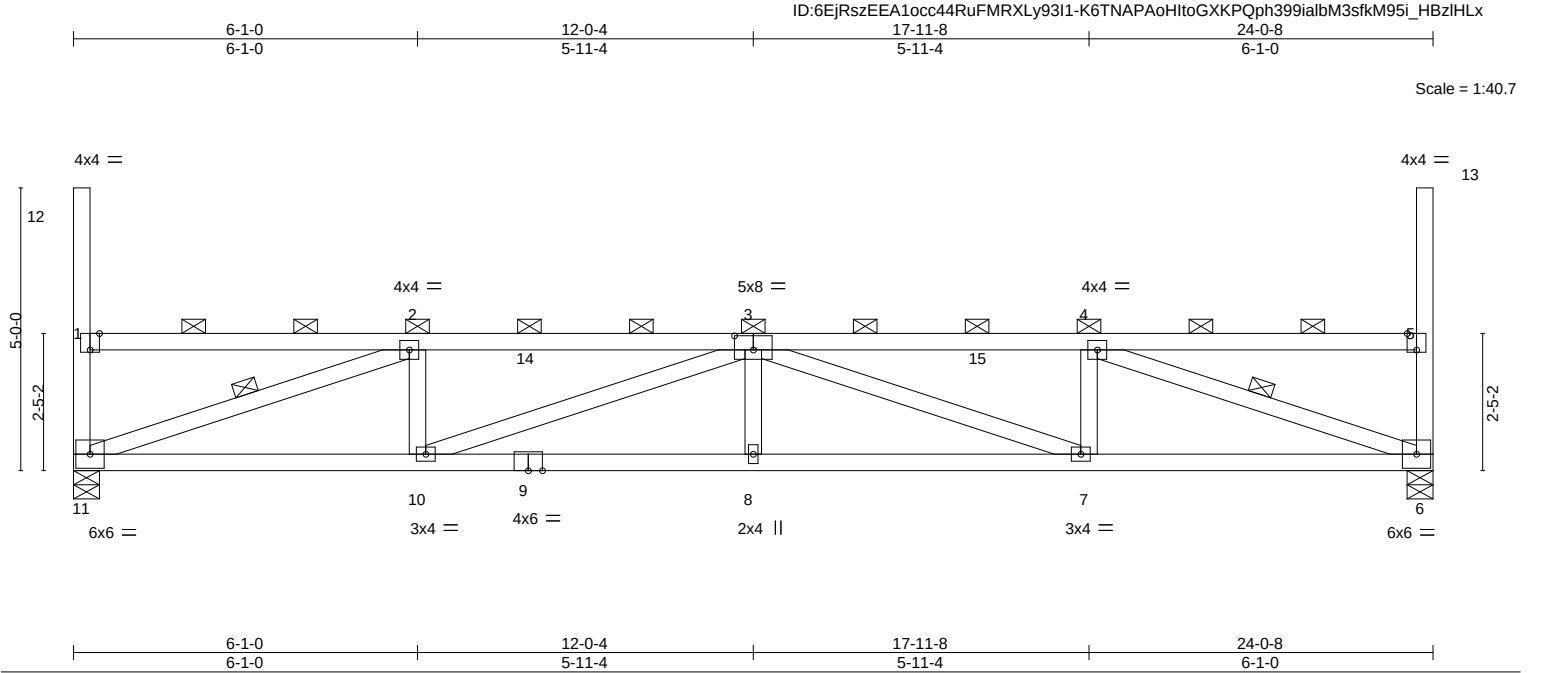


Plate Offsets (X,Y)-- [1:0-2-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.21	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.36	7-8	>795	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.10	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 98 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (3-8-8 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-14 oc bracing.
WEBS 1 Row at midpt 2-11, 4-6

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=291(LC 11)
Max Uplift 11=-29(LC 10), 6=-29(LC 11)
Max Grav 11=1009(LC 2), 6=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-361/297, 2-3=-2160/1121, 3-4=-2161/1122, 4-5=-360/297
BOT CHORD 10-11=-1398/2160, 8-10=-1570/2792, 7-8=-1570/2792, 6-7=-1050/2161
WEBS 2-11=-2214/1206, 2-10=-110/419, 3-10=-672/556, 3-7=-671/553, 4-7=-110/419, 4-6=-2215/1203

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T42	Flat	4	1	I50215680
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:23 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-oI1mNlBQ2c0ftgvc_WCIiNFlp?iYb64VOlRXpezlHLw

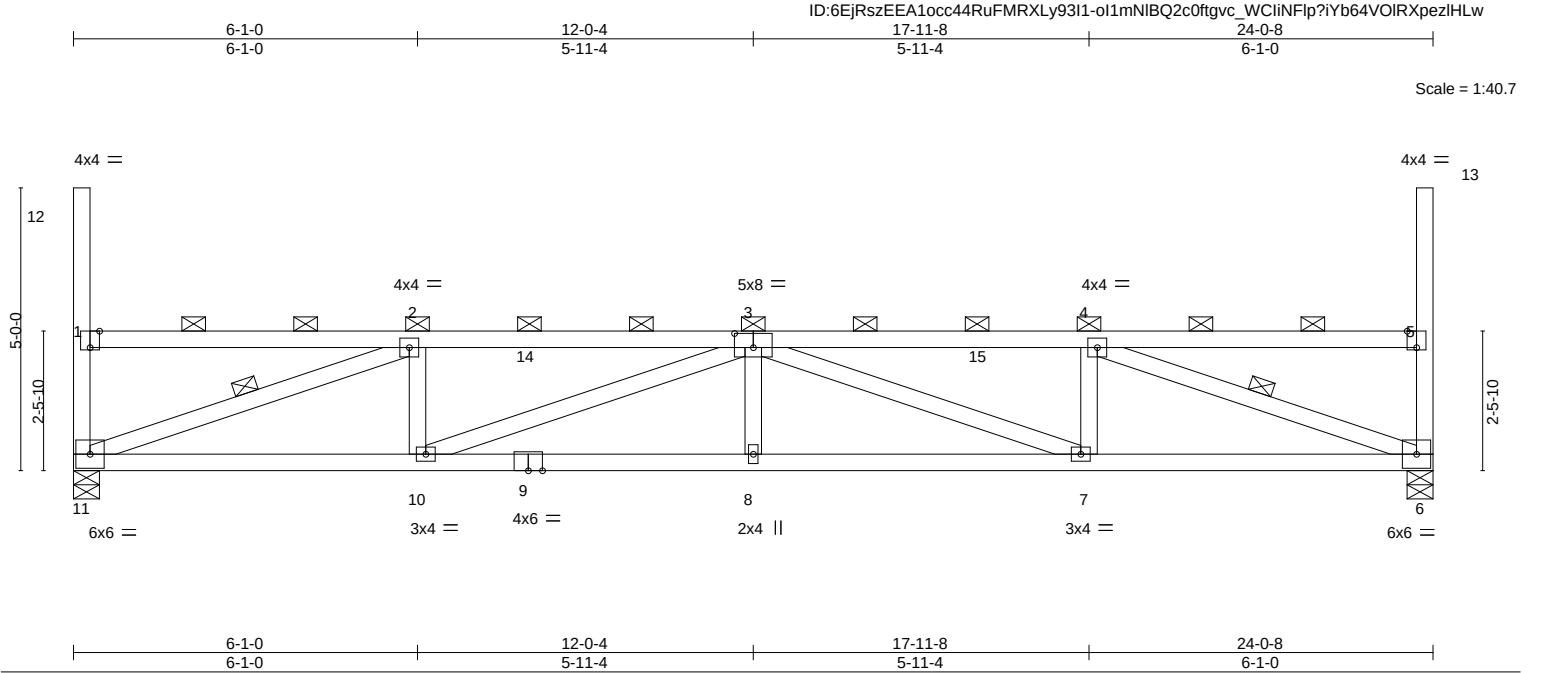


Plate Offsets (X,Y)-- [1:0-2-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.20	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.35	7-8	>823	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.09	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 99 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (3-9-0 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-1 oc bracing.
WEBS 1 Row at midpt 2-11, 4-6

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-289(LC 10)
Max Uplift 11=-88(LC 10), 6=-88(LC 11)
Max Grav 11=1009(LC 29), 6=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-343/299, 2-3=-2120/1177, 3-4=-2120/1178, 4-5=-343/299
BOT CHORD 10-11=-1452/2120, 8-10=-1612/2740, 7-8=-1612/2740, 6-7=-1112/2120
WEBS 2-11=-2179/1258, 2-10=-106/424, 3-10=-670/535, 3-7=-670/533, 4-7=-105/424, 4-6=-2179/1257

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 11 and 88 lb uplift at joint 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard Except:

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-14=-48, 15=-60-to-5=-48

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-47-to-5=-36

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-47-to-5=-36

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-47-to-5=-36

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-47-to-5=-36

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T43	Flat	4	1	I50215681
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:25 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-kh8WoRCgaDGN7_3_6xFnnoK5eoNE30gor3weuWzlHLu

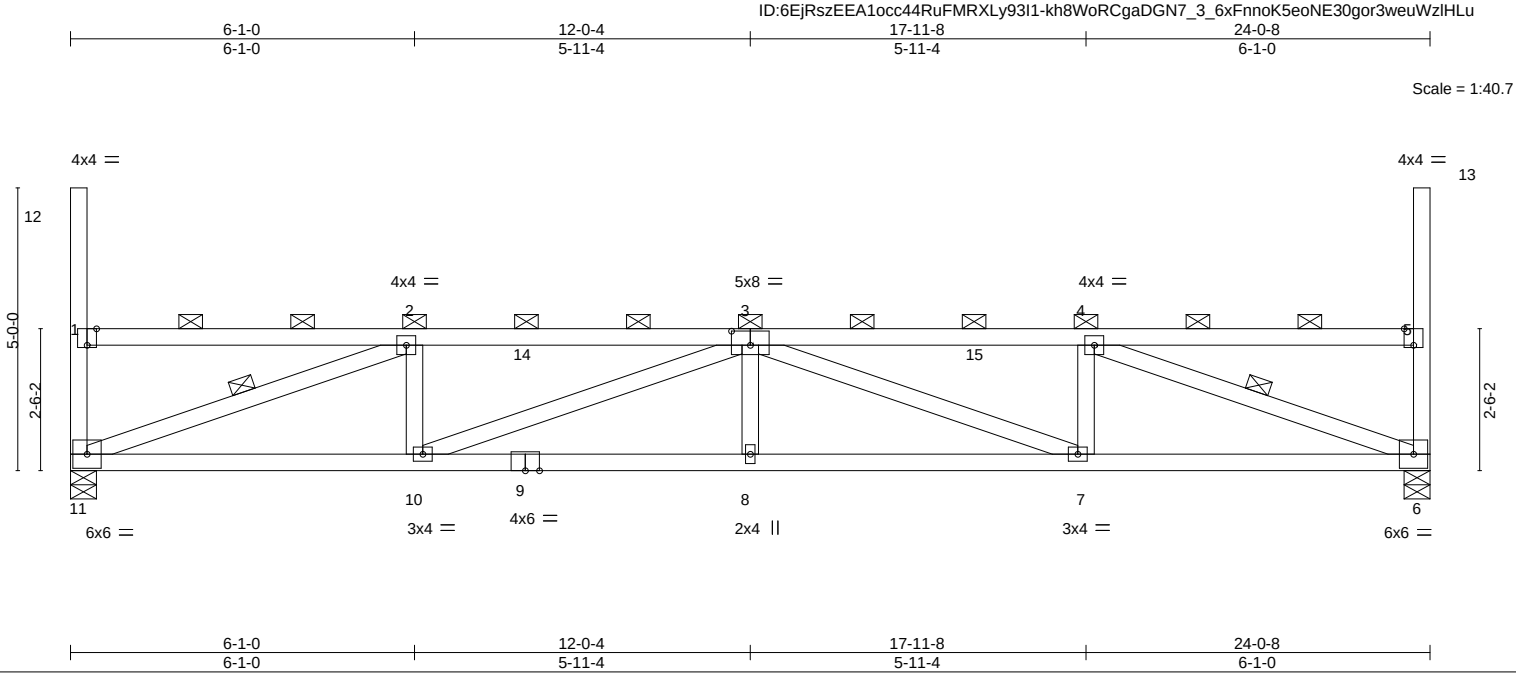


Plate Offsets (X,Y)-- [1:0-2-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.20	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.33	7-8	>853	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.09	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 99 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	2-0-0 oc purlins (3-9-8 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-7-9 oc bracing.
WEBS	1 Row at midpt 2-11, 4-6

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=287(LC 13)
Max Uplift 11=-88(LC 10), 6=-88(LC 11)
Max Grav 11=1009(LC 29), 6=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-334/292, 2-3=-2081/1155, 3-4=-2081/1156, 4-5=-334/292
BOT CHORD 10-11=-1427/2081, 8-10=-1585/2689, 7-8=-1585/2689, 6-7=-1096/2081
WEBS 2-11=-2144/1238, 2-10=-105/424, 3-10=-659/525, 3-7=-659/523, 4-7=-104/424, 4-6=-2145/1236

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 11 and 88 lb uplift at joint 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-14=-48, 15=-48-to-5=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

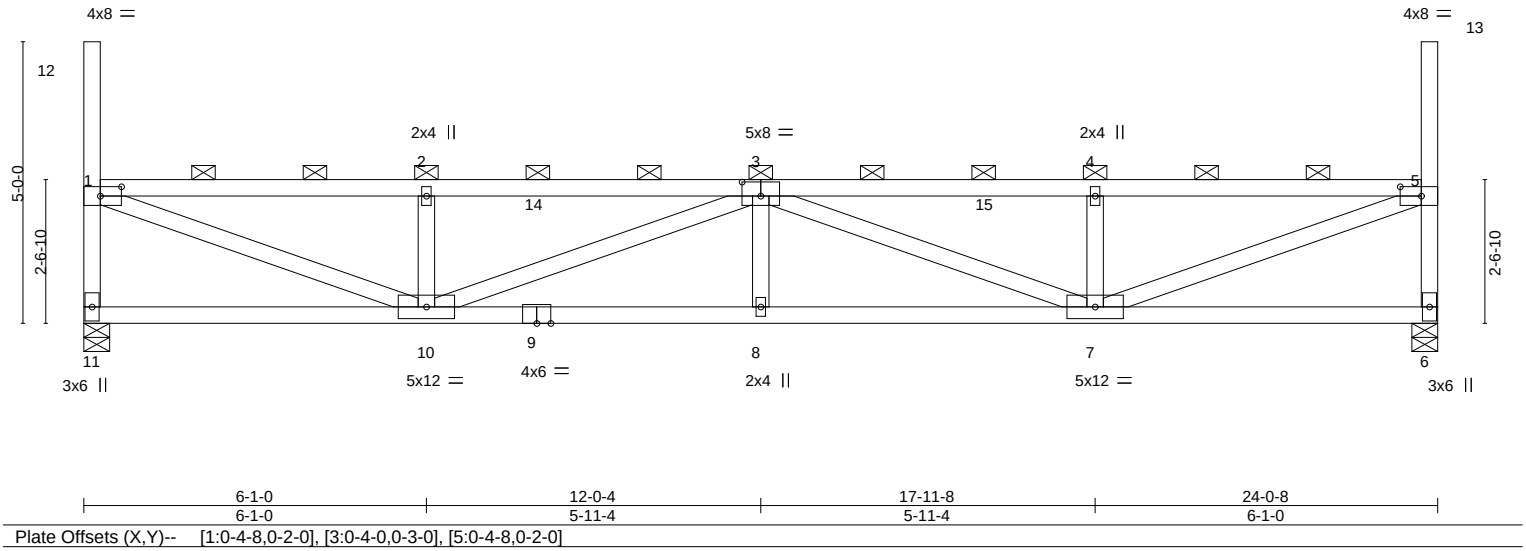
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T44	Flat	4	1	I50215682
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:26 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-Ctiu?nDILXOEk8eAfem0K?tGZCjhoO7x4jgBQzzlHLt

6-1-0 | 12-0-4 | 17-11-8 | 24-0-8
6-1-0 | 5-11-4 | 5-11-4 | 6-1-0

Scale = 1:40.9



6-1-0 | 12-0-4 | 17-11-8 | 24-0-8
6-1-0 | 5-11-4 | 5-11-4 | 6-1-0

Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [3:0-4-0,0-3-0], [5:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.19	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.33	7-8	>876	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.05	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 99 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (3-6-6 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-12 oc bracing.

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-284(LC 10)
Max Uplift 11=-35(LC 10), 6=-81(LC 11)
Max Grav 11=1009(LC 29), 6=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-948/536, 1-2=-2043/1079, 2-3=-2043/1079, 3-4=-2043/1116, 4-5=-2043/1116, 5-6=-949/582
BOT CHORD 10-11=-546/553, 8-10=-1527/2641, 7-8=-1527/2641
WEBS 1-10=-1162/2110, 2-10=-405/321, 3-10=-640/545, 3-7=-666/496, 4-7=-405/347, 5-7=-1200/2110

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 11 and 81 lb uplift at joint 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-14=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-14=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-60

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 5-14=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 5-14=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-47

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-14=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-14=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-14=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-14=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T45	Flat	4	1	I50215683
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:28 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-8GqfQSFZt8ex_SoZn3oUPQycB0QLGIJEY19IUrzIHLr

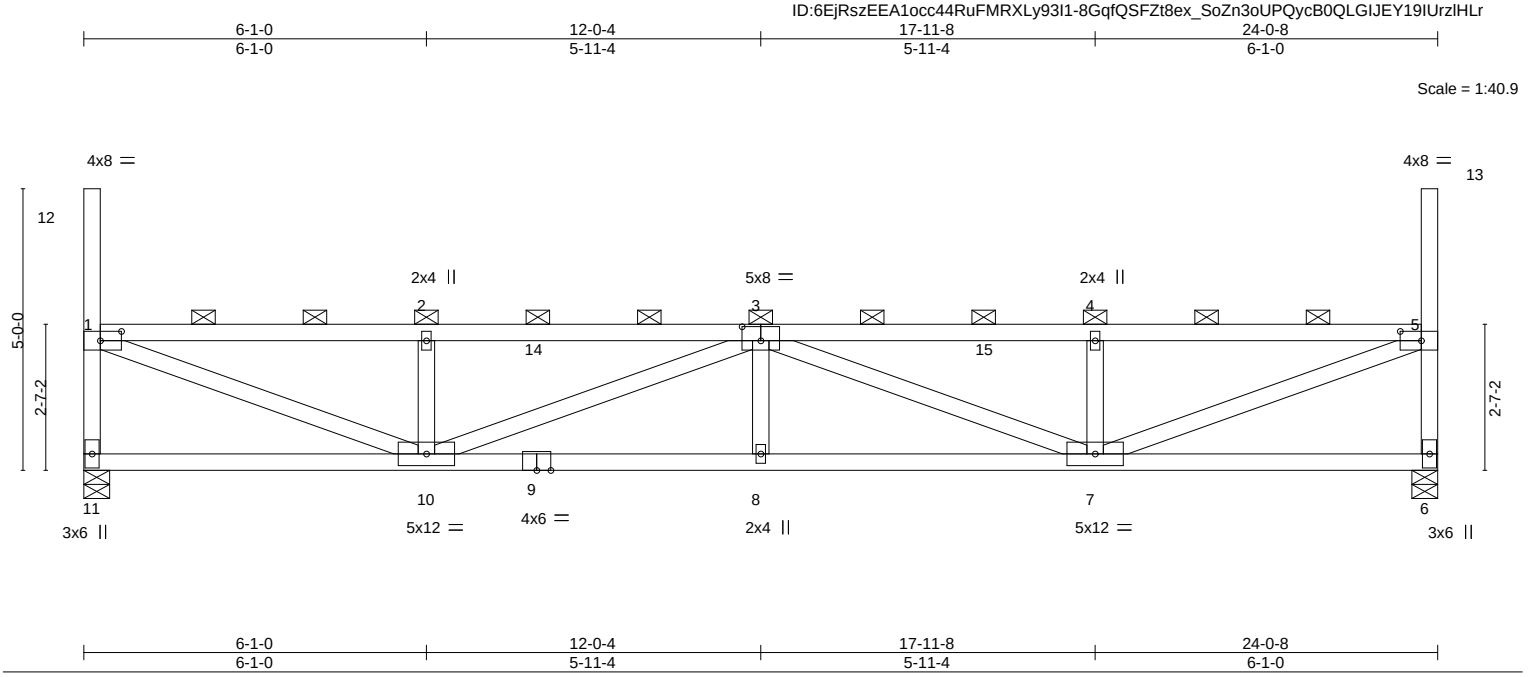


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [3:0-4-0,0-3-0], [5:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	0.18	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.31	7-8	>905	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.05	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 99 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (3-6-14 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-14 oc bracing.

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-282(LC 10)
Max Uplift 11=-29(LC 10), 6=-28(LC 11)
Max Grav 11=1009(LC 2), 6=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-949/529, 1-2=-2006/1042, 2-3=-2006/1042, 3-4=-2007/1040, 4-5=-2007/1040, 5-6=-949/529
BOT CHORD 10-11=-537/543, 8-10=-1470/2593, 7-8=-1470/2593
WEBS 1-10=-1125/2078, 2-10=-405/320, 3-10=-630/519, 3-7=-629/513, 4-7=-406/318, 5-7=-1129/2078

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

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T46	Flat	4	1	I50215684
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:29 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-dSO1eoFBeSmobcNlLnJjxeVo3Pmn?lxNmhur1HzlHLq

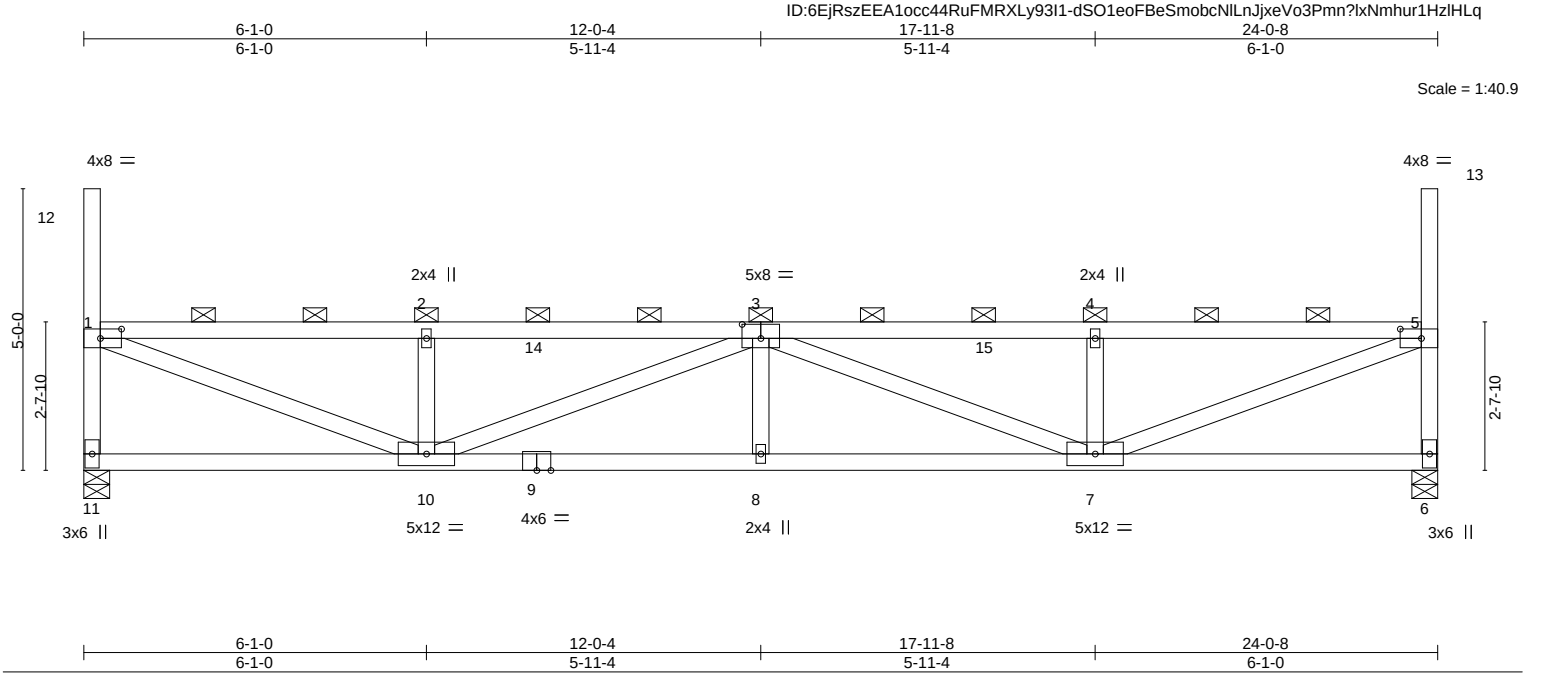


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [3:0-4-0,0-3-0], [5:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.17	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.30	7-8	>935	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.05	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 99 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (3-7-6 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-0 oc bracing.

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-280(LC 10)
Max Uplift 11=-87(LC 10), 6=-87(LC 11)
Max Grav 11=1009(LC 29), 6=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-949/587, 1-2=-1972/1096, 2-3=-1972/1096, 3-4=-1972/1094, 4-5=-1972/1094, 5-6=-949/588
BOT CHORD 10-11=-537/527, 8-10=-1510/2548, 7-8=-1510/2548
WEBS 1-10=-1177/2047, 2-10=-406/350, 3-10=-629/500, 3-7=-629/494, 4-7=-406/348, 5-7=-1181/2048

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 11 and 87 lb uplift at joint 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-14=-48, 15=-48-to-5=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

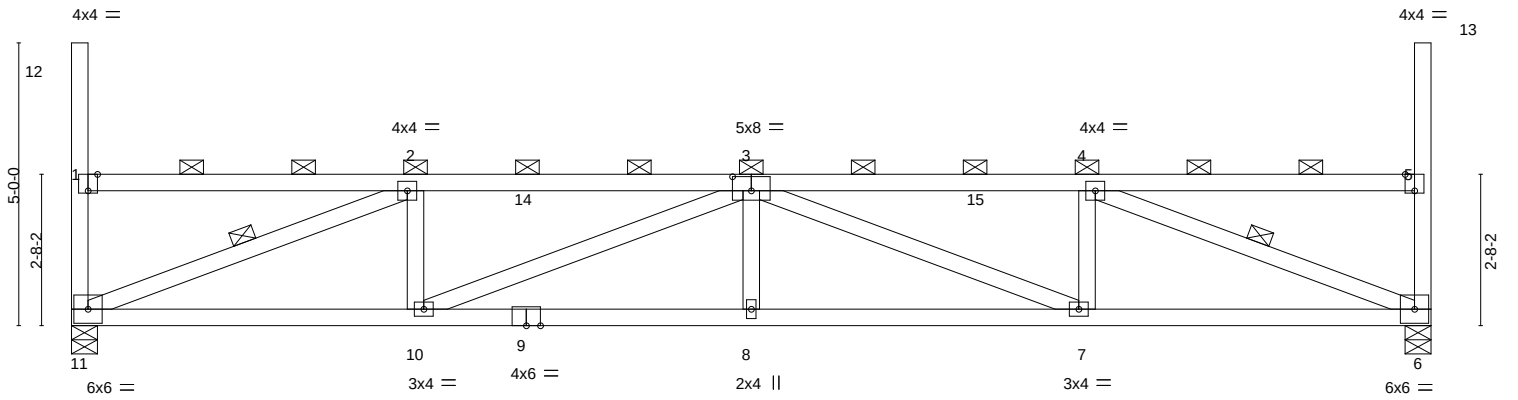
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T47	Flat	4	1	I50215685
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:31 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-ZrWn3UHRA30WrvX8SCMB13a82DRTTkUgE_Ny5AzlHLo

6-1-0	8-1-10	12-0-4	17-11-8	24-0-8
6-1-0	2-0-10	3-10-10	5-11-4	6-1-0

Scale = 1:40.7



6-1-0	8-1-10	12-0-4	17-11-8	24-0-8
6-1-0	2-0-10	3-10-10	5-11-4	6-1-0

Plate Offsets (X,Y)-- [1:0-2-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.17	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.29	7-8	>973	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.09	6	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 100 lb	FT = 20%
BCDL	10.0											

LUMBER-

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

BRACING-

TOP CHORD	2-0-0 oc purlins (3-11-7 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-9-8 oc bracing.
WEBS	1 Row at midpt 2-11, 4-6

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-278(LC 10)
Max Uplift 11=-87(LC 10), 6=-87(LC 11)
Max Grav 11=1009(LC 29), 6=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-303/268, 2-3=-1939/1076, 3-4=-1939/1077, 4-5=-302/268
BOT CHORD 10-11=-1337/1939, 8-10=-1487/2503, 7-8=-1487/2503, 6-7=-1036/1939
WEBS 2-11=-2019/1162, 2-10=-103/425, 3-10=-618/489, 3-7=-618/487, 4-7=-103/425, 4-6=-2020/1161

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 11 and 87 lb uplift at joint 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T47	Flat	4	1	I50215685 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-14=-48, 15=-48-to-5=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T48	Roof Special	12	1	I50215686
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:32 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-1139GqI3wN8NS35K0vtQZG7OPdxxCFTqSe7WdczlHLn

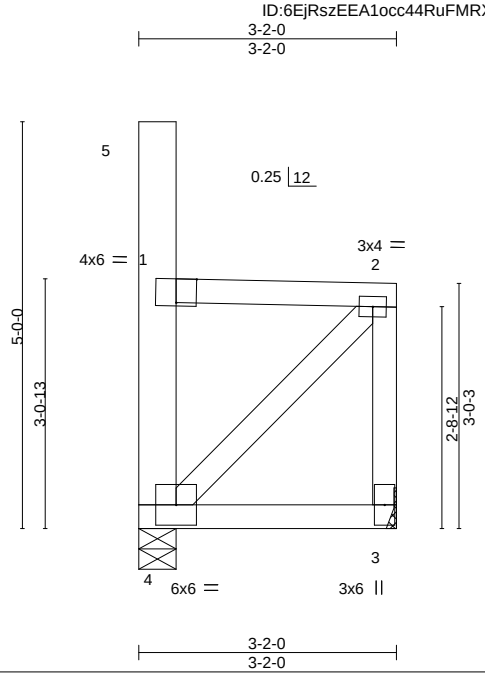


Plate Offsets (X,Y)-- [1:0-2-15,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.00	3-4	>999	240	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	3-4	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 22 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-188(LC 10)
Max Uplift 4=-175(LC 10), 3=-187(LC 11)
Max Grav 4=216(LC 26), 3=231(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-389/271, 2-3=-358/423
WEBS 2-4=-425/626

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 4 and 187 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-52-to-2=-41

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-40-to-2=-28

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-40-to-2=-28

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T49	Roof Special	20	1	I50215687
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:33 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-VDdYTAIhhhGE4DgXacOf6UfZM1luxi1zhIs3A3zlHLm

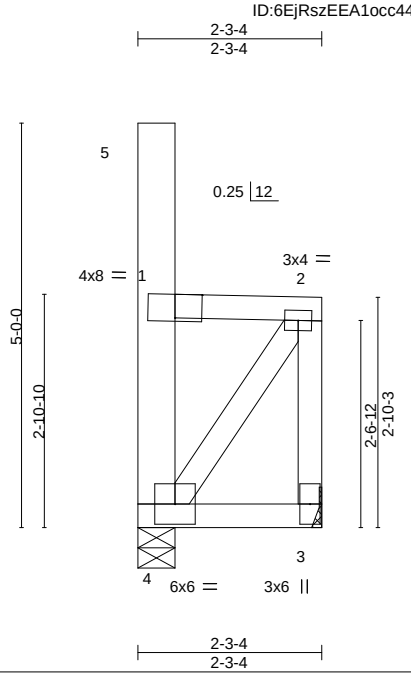


Plate Offsets (X,Y)-- [1:0-3-15,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.00	4	>999	240	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	3-4	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 19 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=0-5-8
Max Horz 4=-192(LC 10)
Max Uplift 3=-277(LC 11), 4=-269(LC 10)
Max Grav 3=307(LC 12), 4=295(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-441/274, 2-3=-652/518
WEBS 2-4=-513/830

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 277 lb uplift at joint 3 and 269 lb uplift at joint 4.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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

February 15,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-52-to-2=-41

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-40-to-2=-28

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-40-to-2=-28

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

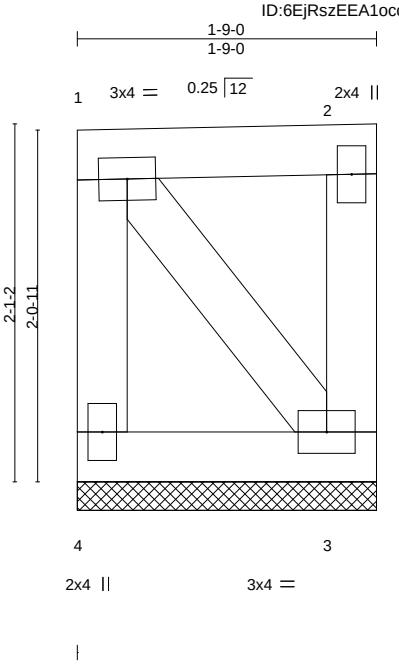
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE01	Blocking Supported	12	1	I50215688
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:35 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-RcIlurKyDlWyJXqvh1Q7BvlxIq_6Pd3G9cLAExzlHLk



Scale = 1:13.5

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 10 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-9-0, 3=1-9-0
Max Horz 4=55(LC 44)
Max Uplift 4=-233(LC 38), 3=-224(LC 41)
Max Grav 4=256(LC 45), 3=244(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-242/258
BOT CHORD 3-4=-241/251
WEBS 1-3=-363/367

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 4 and 224 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 110 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-9-0 for 110.0 plf.

February 15,2022

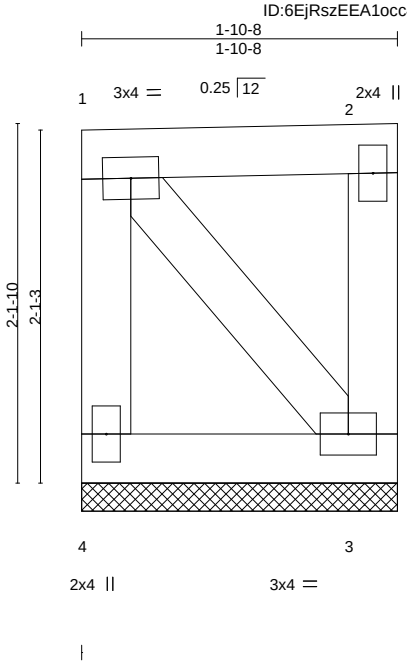
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE02	Blocking Supported	12	1	I50215689
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:36 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-voJg6BLa_cepxgP5FlxMj6H61EJI84GPNG5jmOzlHLj



Scale = 1:13.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 10 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=56(LC 41)
Max Uplift 4=-237(LC 38), 3=-227(LC 41)
Max Grav 4=262(LC 45), 3=248(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-246/257
BOT CHORD 3-4=-256/265
WEBS 1-3=-374/378

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 237 lb uplift at joint 4 and 227 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 110 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 110.0 plf.

February 15,2022

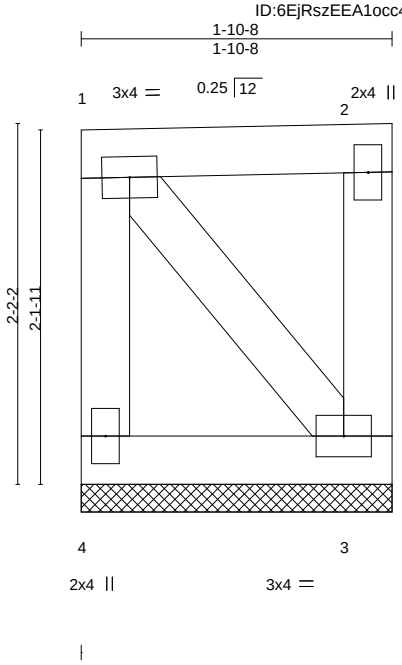
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE03	Blocking Supported	12	1	I50215690
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:37 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-O?t2JXMClvmgZq_IpSSbGKqHjefWtXVZcwqHJqzlHLi



Scale = 1:13.9

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 10 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=57(LC 40)
Max Uplift 4=-243(LC 38), 3=-233(LC 41)
Max Grav 4=268(LC 45), 3=254(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-252/266
BOT CHORD 3-4=-258/268
WEBS 1-3=-381/385

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint 4 and 233 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 110 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 110.0 plf.

February 15,2022

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

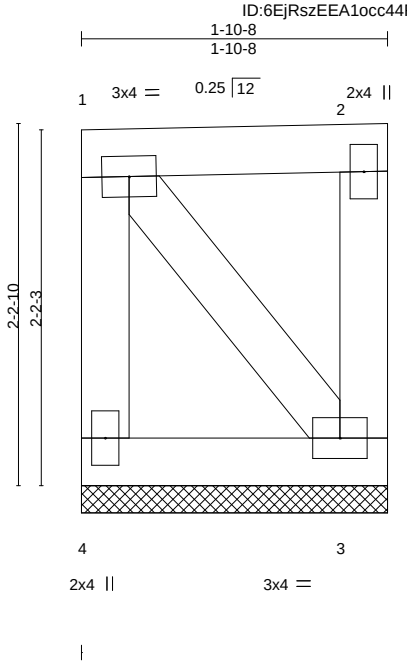
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE04	Blocking Supported	12	1	I50215691
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:39 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-KN?pkDNSHX1Oo88gwtV3LlvcARL_LRzs3EJNNizIHLg



Scale = 1:14.1

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 10 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=58(LC 44)
Max Uplift 4=-249(LC 38), 3=-239(LC 41)
Max Grav 4=274(LC 45), 3=260(LC 42)

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

TOP CHORD	1-4=-258/274
BOT CHORD	3-4=-261/270
WEBS	1-3=-389/393

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 249 lb uplift at joint 4 and 239 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 110 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 110.0 plf.

February 15,2022

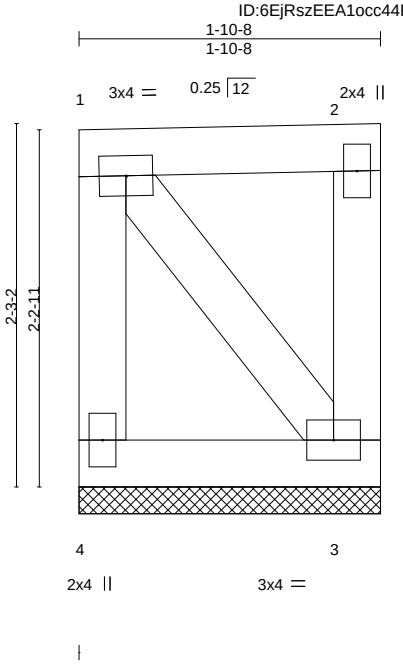
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE05	Blocking Supported	12	1	I50215692
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:42 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-kygxMFPLaSPyfbsFb?2mzNX7NfNgYogImCY2_1zIHLd



Scale = 1:14.3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 10 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=60(LC 40)
Max Uplift 4=-255(LC 38), 3=-245(LC 41)
Max Grav 4=280(LC 45), 3=266(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-264/283
BOT CHORD 3-4=-263/273
WEBS 1-3=-396/401

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 255 lb uplift at joint 4 and 245 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 110 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 110.0 plf.

February 15,2022

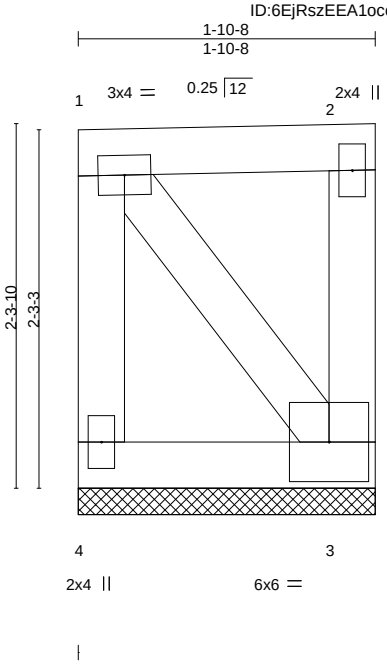
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE06	Blocking Supported	12	1	I50215693
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:44 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-gLoinwRb63fgvv0ejQ4E2ocTpS280i9bDW183wzIHLb



Scale = 1:14.5

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 11 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=61(LC 40)
Max Uplift 4=-261(LC 38), 3=-251(LC 41)
Max Grav 4=286(LC 45), 3=273(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-270/291
BOT CHORD 3-4=-265/275
WEBS 1-3=-404/409

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 261 lb uplift at joint 4 and 251 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 110 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 110.0 plf.

February 15,2022

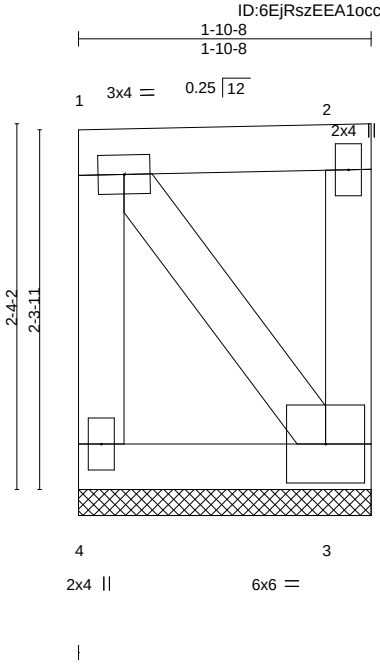
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE07	Blocking Supported	12	1	I50215694
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:46 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-dkwSCcTrdgvO8DA0qr7i7DipFGkbUcdugqWF7ozlHLZ



Scale = 1:14.8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 11 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=62(LC 13)
Max Uplift 4=-267(LC 38), 3=-257(LC 41)
Max Grav 4=292(LC 45), 3=279(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-277/300
BOT CHORD 3-4=-267/278
WEBS 1-3=-412/416

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 267 lb uplift at joint 4 and 257 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 110 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 110.0 plf.

February 15,2022

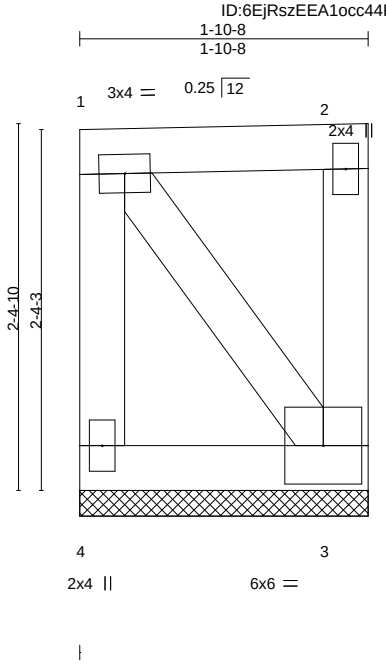
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE08	Blocking Supported	12	1	I50215695
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:47 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-5wTqQyTTO_1FmNlDOZexgRE_yg4qD3q1vUFofFzlHLY



Scale = 1:15.0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 11 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=63(LC 13)
Max Uplift 4=-274(LC 38), 3=-263(LC 41)
Max Grav 4=299(LC 45), 3=285(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-283/309
BOT CHORD 3-4=-269/280
WEBS 1-3=-420/424

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 4 and 263 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 110 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 110.0 plf.

February 15,2022

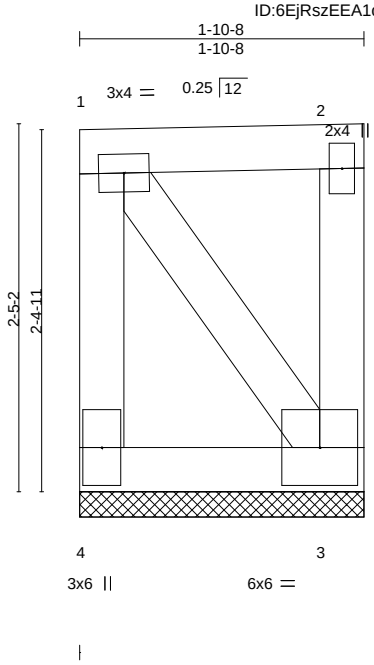
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE09	Blocking Supported	12	1	I50215696
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:53 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-w4r5g?YE_qnOUICNlplLwiU?U56ddl4wHQi7tuzlHLS



Scale = 1:15.2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 11 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=65(LC 40)
Max Uplift 4=-578(LC 38), 3=-564(LC 41)
Max Grav 4=603(LC 45), 3=585(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-588/616, 1-2=-387/399
BOT CHORD 3-4=-471/482
WEBS 1-3=-796/801

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 578 lb uplift at joint 4 and 564 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

February 15,2022

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

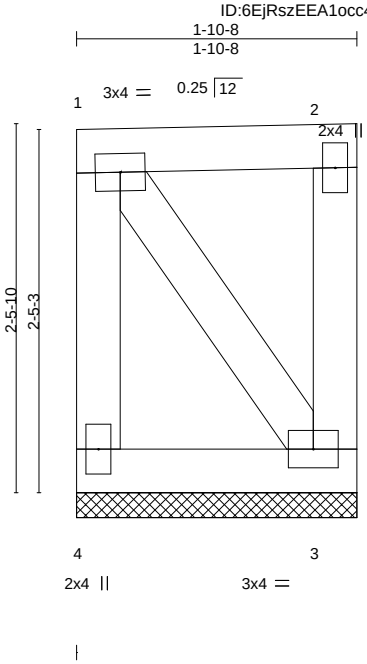
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE10	Blocking Supported	12	1	I50215697
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:00 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-DQml8PddK_gPpMEjfnN_iAHC6vWEmyzyu?v_d_zlHLL



Scale = 1:15.4

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 11 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=66(LC 11)
Max Uplift 4=-47(LC 10), 3=-41(LC 11)
Max Grav 4=86(LC 26), 3=78(LC 25)

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 4 and 41 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 15,2022

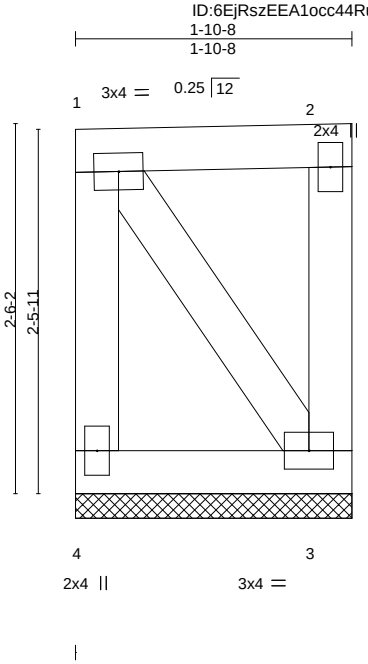
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE11	Blocking Supported	12	1	I50215698 Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:01 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-hcK7MkeF5HoGRWpvDVuDEOqNqJsSVPC57feY9RzIHLK



Scale = 1:15.6

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 11 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=67(LC 13)
Max Uplift 4=-49(LC 10), 3=-42(LC 11)
Max Grav 4=87(LC 26), 3=79(LC 25)

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 4 and 42 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 15,2022

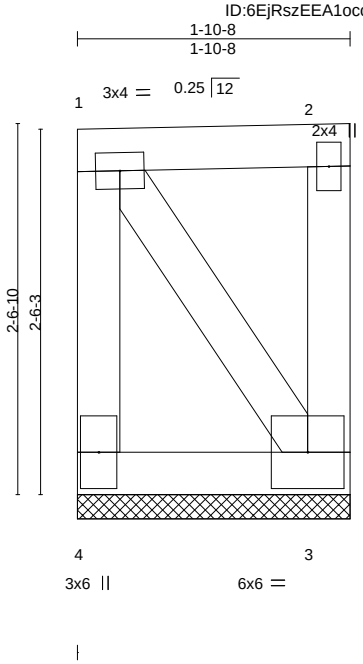
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE12	Blocking Supported	12	1	I50215699
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:02 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-9ptVZ4fusbw73gO5mCPSnbMX0jAiEqAEMJO5htzIHLJ



Scale: 3/4"=1'

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=69(LC 44)
Max Uplift 4=-615(LC 38), 3=-600(LC 41)
Max Grav 4=640(LC 45), 3=622(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-624/661, 1-2=-389/401
BOT CHORD 3-4=-478/490
WEBS 1-3=-835/840

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 615 lb uplift at joint 4 and 600 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

February 15,2022

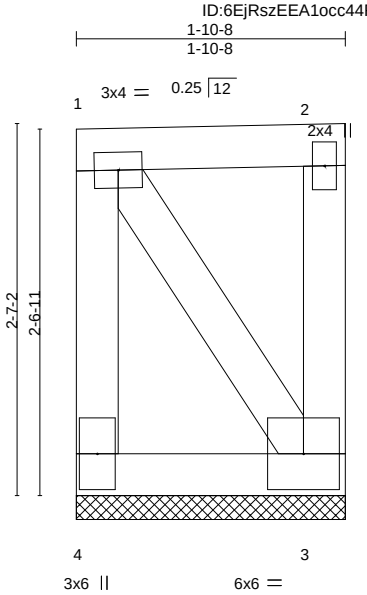
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE13	Blocking Supported	12	1	I50215700
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:04 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-5B?G_mg8OCArI_YUudRws0RtRWsAikdXpdtCmmzIHLH



Scale: 3/4"=1'

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=70(LC 44)
Max Uplift 4=-627(LC 38), 3=-612(LC 41)
Max Grav 4=652(LC 45), 3=634(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-636/676, 1-2=-389/402
BOT CHORD 3-4=-480/492
WEBS 1-3=-848/853

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 627 lb uplift at joint 4 and 612 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

February 15,2022

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

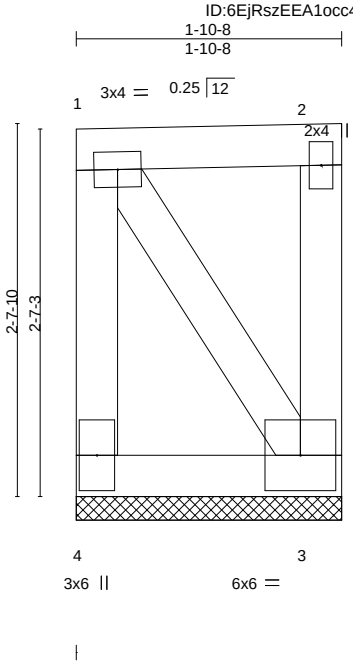
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE14	Blocking Supported	12	1	I50215701
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:05 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-ZNZeB6hm9WIhw87gSLz9PE_1qwCNRBrh2HcIlCzIHLG



Scale = 1:16.3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=71(LC 44)
Max Uplift 4=-639(LC 38), 3=-625(LC 41)
Max Grav 4=664(LC 45), 3=646(LC 42)

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

TOP CHORD	1-4=-649/691, 1-2=-390/403
BOT CHORD	3-4=-482/494
WEBS	1-3=-862/867

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 639 lb uplift at joint 4 and 625 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

February 15,2022

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

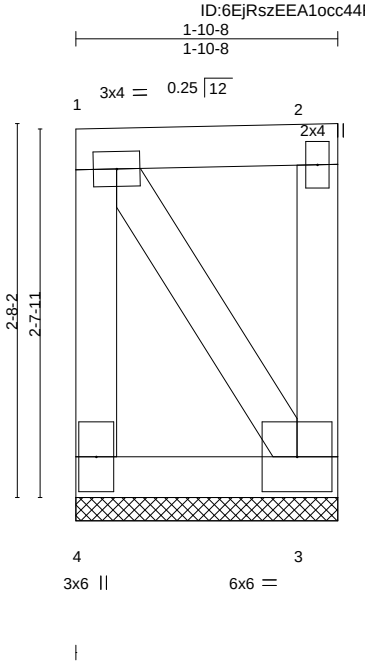
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE15	Blocking Supported	12	1	I50215702
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:06 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-1a70PSiOwqQYYHis?2UOxRXCVKYcAe1qHxMJqezIHLF



Scale = 1:16.5

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=72(LC 13)
Max Uplift 4=-651(LC 38), 3=-637(LC 41)
Max Grav 4=677(LC 45), 3=658(LC 42)

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

TOP CHORD	1-4=-661/707, 1-2=-390/404
BOT CHORD	3-4=-484/497
WEBS	1-3=-875/880

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 651 lb uplift at joint 4 and 637 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

February 15,2022

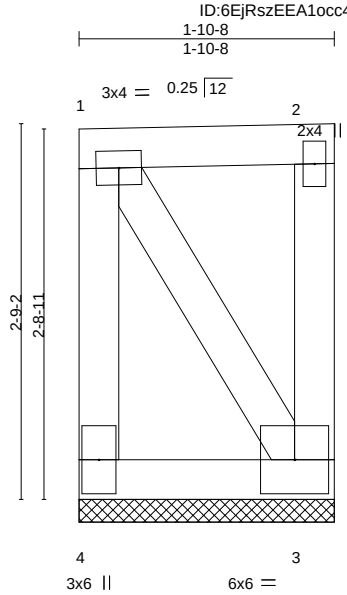
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE16	Blocking Supported	8	1	I50215703
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:10 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-wLMXEplv_2w_0v?eEuYK6HhtKxvX6QxQCZKWzPzlHLB



Scale = 1:16.9

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=75(LC 45)
Max Uplift 4=-676(LC 38), 3=-662(LC 41)
Max Grav 4=701(LC 45), 3=683(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-692/737, 1-2=-391/405
BOT CHORD 3-4=-489/502
WEBS 1-3=-902/908

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 676 lb uplift at joint 4 and 662 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

February 15,2022

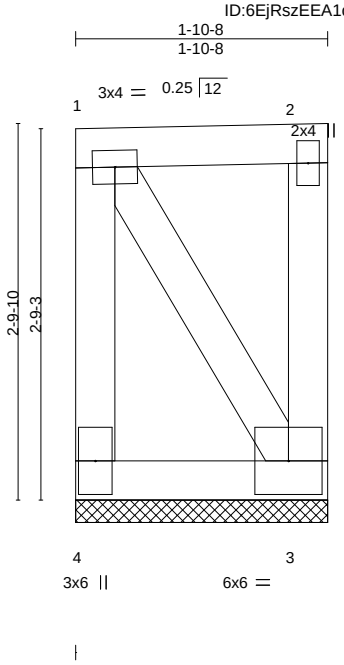
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE17	Blocking Supported	8	1	I50215704
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:15 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-GJAQIXp1obZH7gub1R8VpKPk_ycinh79Lr1HfdzlHL6



Scale = 1:17.1

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=76(LC 45)
Max Uplift 4=-688(LC 38), 3=-674(LC 41)
Max Grav 4=714(LC 45), 3=695(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-708/753, 1-2=-392/406
BOT CHORD 3-4=-491/504
WEBS 1-3=-916/922

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 688 lb uplift at joint 4 and 674 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

February 15,2022

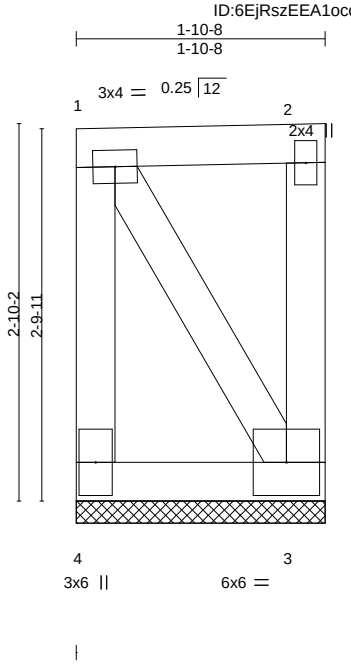
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE18	Blocking Supported	8	1	I50215705
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:18 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-hurYwYrw5Wxr_7cAiZhCQz1F8AeO_2qb1oGxFyzIHL3



Scale = 1:17.4

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=77(LC 40)
Max Uplift 4=-701(LC 38), 3=-687(LC 41)
Max Grav 4=726(LC 45), 3=708(LC 42)

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

TOP CHORD	1-4=-723/769, 1-2=-392/407
BOT CHORD	3-4=-493/507
WEBS	1-3=-930/936

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 701 lb uplift at joint 4 and 687 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

February 15,2022

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

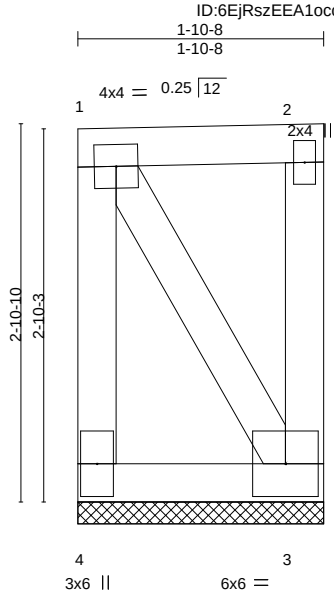
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE19	Blocking Supported	2	1	I50215706
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:20 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-dGzJLEtAd7BZDRmZq_kgWO6bYzKsSyGuV6l2KqzlHL1



Scale = 1:17.6

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=79(LC 40)
Max Uplift 4=-713(LC 38), 3=-699(LC 41)
Max Grav 4=739(LC 45), 3=720(LC 42)

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

TOP CHORD	1-4=-739/784, 1-2=-393/408
BOT CHORD	3-4=-495/509
WEBS	1-3=-945/950

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 713 lb uplift at joint 4 and 699 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

February 15,2022

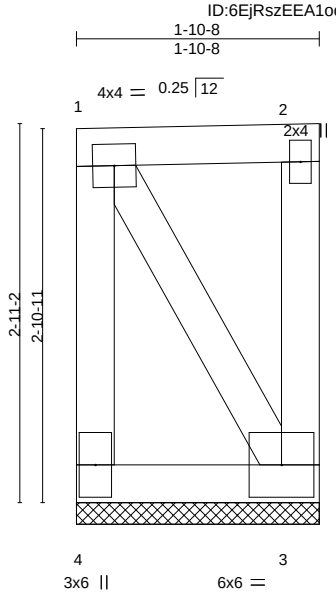
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE20	Blocking Supported	2	1	I50215707
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:21 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-5SXhYauoORJQrbLlOiFv2bfmDNf4BPT1kmUcsHzlHL0



Scale = 1:17.8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 13 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=80(LC 45)
Max Uplift 4=-726(LC 38), 3=-711(LC 41)
Max Grav 4=751(LC 45), 3=733(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-755/800, 1-2=-394/409
BOT CHORD 3-4=-497/512
WEBS 1-3=-959/964

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 726 lb uplift at joint 4 and 711 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

February 15,2022

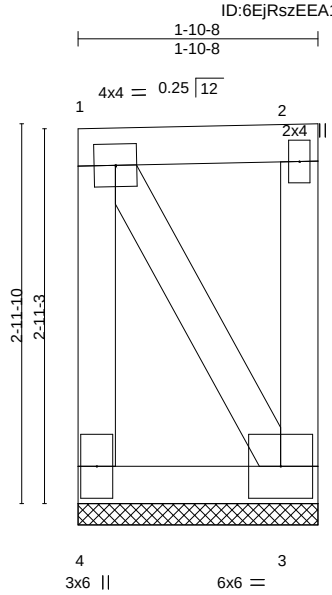
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE21	Blocking Supported	2	1	I50215708
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:23 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-1rfRzGv3w2Z84vV8V7HN70k6cBLYfJwKB4zix9zIHL_



Scale = 1:18.0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 13 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=81(LC 45)
Max Uplift 4=-738(LC 38), 3=-724(LC 41)
Max Grav 4=764(LC 45), 3=745(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-771/816, 1-2=-394/410
BOT CHORD 3-4=-500/514
WEBS 1-3=-973/979

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 738 lb uplift at joint 4 and 724 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

February 15,2022

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

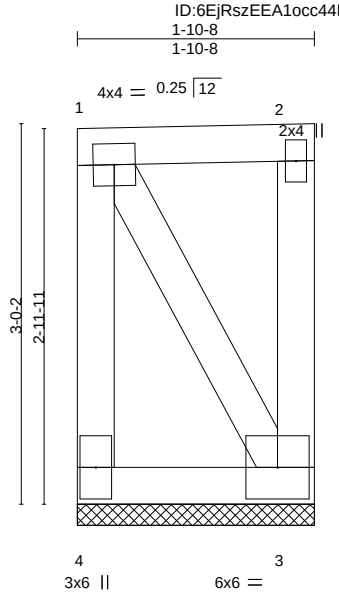
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE22	Blocking Supported	2	1	I50215709
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:24 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-W1DpBcwhhMh?i24K3qocgEGHHahmOm7UQkjGSbzIHKz



Scale = 1:18.2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 13 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=82(LC 40)
Max Uplift 4=-751(LC 38), 3=-737(LC 41)
Max Grav 4=776(LC 45), 3=758(LC 42)

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

TOP CHORD	1-4=-787/832, 1-2=-395/410
BOT CHORD	3-4=-502/517
WEBS	1-3=-988/994

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 751 lb uplift at joint 4 and 737 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

February 15,2022

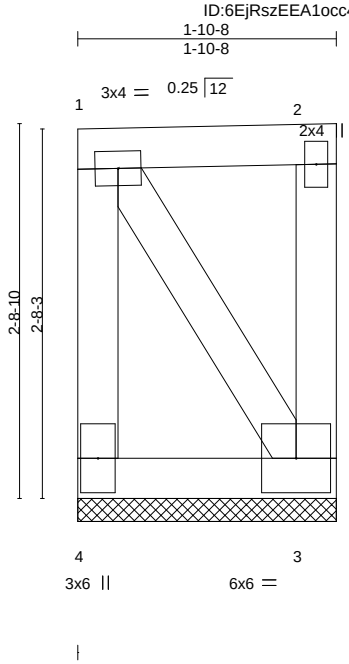
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE23	Blocking Supported	2	1	I50215710
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:25 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-_EmCOyxJSfpsJCfWdXKrDRpRd_137DhdeOSp_2zlHKy



Scale = 1:16.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=74(LC 40)
Max Uplift 4=-664(LC 38), 3=-649(LC 41)
Max Grav 4=689(LC 45), 3=671(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-676/722, 1-2=-391/405
BOT CHORD 3-4=-486/499
WEBS 1-3=-889/894

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 664 lb uplift at joint 4 and 649 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

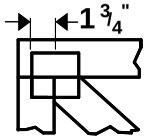
February 15,2022

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

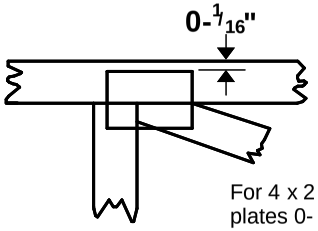
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

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

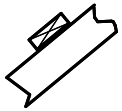
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

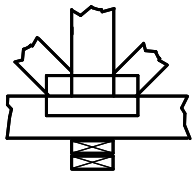
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

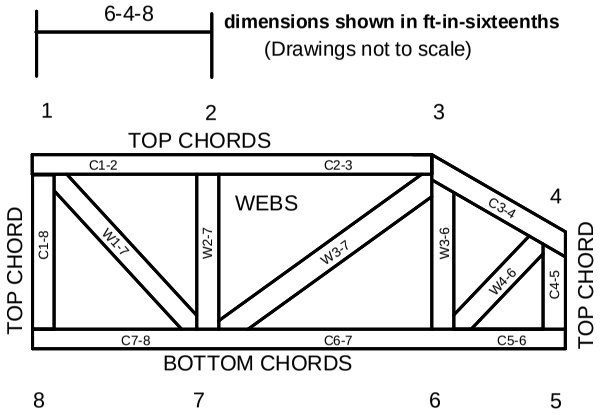


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

© 2012 MiTek® All Rights Reserved

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

21.The design does not take into account any dynamic or other loads other than those expressly stated.

Building 1

Building 2

B D C

Structural Engineers – Since 1957

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

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

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

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: March 8, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 2 Roof and Floor Truss Shop Drawings	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

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

DEFINITIONS

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

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

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

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

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

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

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

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Building 2

Brinkmann CONSTRUCTORS

Employee-Owned

TRANSMITTAL

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

Date: 3/1/2022

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

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

We are sending:

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

Transmitted as checked:

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

Transmitted via:

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

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

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 3/14/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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

TRi ARCHITECTS

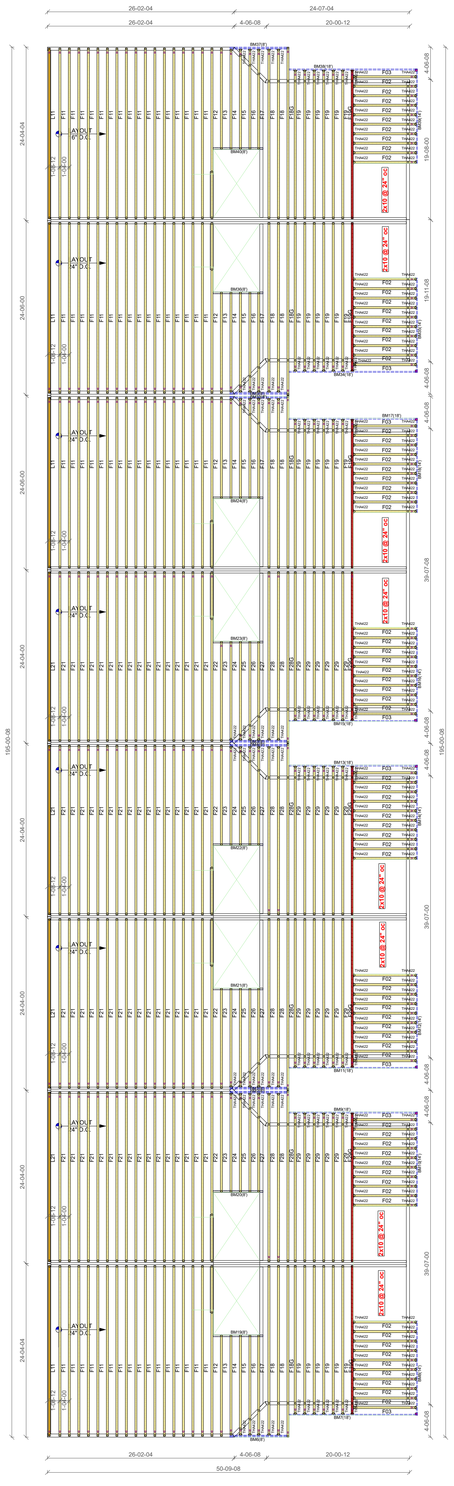
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

Brinkmann Approval	
Submittals bearing this stamp have been verified or will be verified as to materials, field measurements and construction criteria related thereto and have been coordinated with the Contract Documents. The Sub-contractor is responsible to the General Contractor for dimensions to be confirmed and correlated at the job site, and for information that pertains to the fabrication process or to the technique of construction and for coordination of the work with all trades.	
By: Kolten Ragan	**Date:** 3/1/2022

Brinkmann Comments in Green

Group 2 2nd Floor Plan

8-Plex Building



9-1-2 WALL HEIGHTS U.N.O.

Truss Connector Total List		
Manuf	Product	Qty
	THA422	260

Floor Information
First Floor Area: 0 ft²
Second Floor Area: 9338.87

Products					
Pcs/ID	Length	Product	Plies	Net Qty	Fab Type
BM11(1F)	18-00-00	1 3/4" x 18" 2.0E Microlam® LVL	1	1	MFD
BM13(1F)	18-00-00	1 3/4" x 18" 2.0E Microlam® LVL	1	1	MFD
BM15(1F)	18-00-00	1 3/4" x 18" 2.0E Microlam® LVL	1	1	MFD
BM17(1F)	18-00-00	1 3/4" x 18" 2.0E Microlam® LVL	1	1	MFD
BM04(1F)	18-00-00	1 3/4" x 18" 2.0E Microlam® LVL	1	1	MFD
BM06(1F)	18-00-00	1 3/4" x 18" 2.0E Microlam® LVL	1	1	MFD
BM01(1F)	18-00-00	1 3/4" x 18" 2.0E Microlam® LVL	1	1	MFD
BM5(1F)	18-00-00	1 3/4" x 18" 2.0E Microlam® LVL	1	1	MFD
BM13(14')	14-00-00	1 3/4" x 18" 2.0E Microlam® LVL	1	1	MFD
BM12(14')	14-00-00	1 3/4" x 18" 2.0E Microlam® LVL	1	1	MFD
BM14(14')	14-00-00	1 3/4" x 18" 2.0E Microlam® LVL	1	1	MFD
BM16(14')	14-00-00	1 3/4" x 18" 2.0E Microlam® LVL	1	1	MFD
BM18(14')	14-00-00	1 3/4" x 18" 2.0E Microlam® LVL	1	1	MFD
BM03(14')	14-00-00	1 3/4" x 18" 2.0E Microlam® LVL	1	1	MFD
BM08(14')	14-00-00	1 3/4" x 18" 2.0E Microlam® LVL	1	1	MFD
BM8(14')	14-00-00	1 3/4" x 18" 2.0E Microlam® LVL	1	1	MFD
BM1(8')	8-00-00	1 3/4" x 18" 2.0E Microlam® LVL	2	2	MFD
BM2(8')	8-00-00	1 3/4" x 18" 2.0E Microlam® LVL	2	2	MFD
BM3(8')	8-00-00	1 3/4" x 18" 2.0E Microlam® LVL	2	2	MFD
BM10(8')	8-00-00	1 3/4" x 18" 2.0E Microlam® LVL	2	2	MFD
BM07(8')	8-00-00	1 3/4" x 18" 2.0E Microlam® LVL	2	2	MFD
BM4(8')	8-00-00	1 3/4" x 18" 2.0E Microlam® LVL	2	2	MFD
BM5(8')	8-00-00	1 3/4" x 18" 2.0E Microlam® LVL	2	2	MFD
BM6(8')	8-00-00	1 3/4" x 18" 2.0E Microlam® LVL	2	2	MFD
BM19(8')	8-00-00	2x12 HF No.2	2	2	MFD
BM20(8')	8-00-00	2x12 HF No.2	2	2	MFD
BM21(8')	8-00-00	2x12 HF No.2	2	2	MFD
BM23(8')	8-00-00	2x12 HF No.2	2	2	MFD
BM22(8')	8-00-00	2x12 HF No.2	2	2	MFD
BM24(8')	8-00-00	2x12 HF No.2	2	2	MFD
BM09(8')	8-00-00	2x12 HF No.2	2	2	MFD
BM40(8')	8-00-00	2x12 HF No.2	2	2	MFD

FLOOR TRUSS LAYOUT (NTS)

Thank you for giving us the opportunity to serve you.
We appreciate your business and the confidence you have placed in us.
Please call us if we can be of further assistance.

Model Name:		TBD			Lot
Address:	Lee Summit,	Mo	64063	Lot / Blk:	
Subdivision:					

Brinkmann Constructors

G02F

Job Name:					
Structure Ref #:				Date:	2/24/22
Designer:	Juan Quiroz				
OT Ref #:	J220197	Status:	Order		

SHOP DRAWING REVIEW

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

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE 03/08/2022 BY: MJF

Mill Creek Truss
Building Dreams for Our Employees and Customers
3363 S Halstead Rd
Halstead, KS 67056
Office: 316-830-6108

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

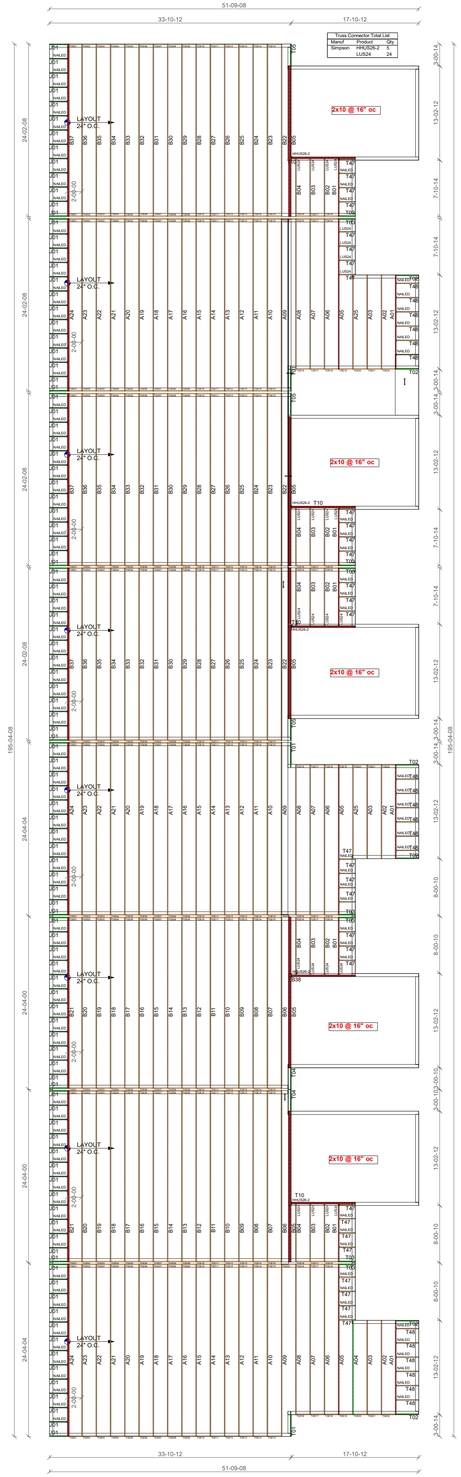
DO NOT Erect BWRDS/Upside Down, Cut, Alter, Installed Trusses!

Group 2 Roof Plan

8-Plex Building

Roof Information
Roof Area: 9279.92
Ridge Line: 0
Hip Line: 0
Horiz Eave Line: 599.5
Raked Eave Line:304.53
Valley Line: 0

6-1-2 WALL HEIGHTS U.N.O.



ROOF TRUSS LAYOUT (NTS)

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

Thank you for giving us the opportunity to serve you.
We appreciate your business and the
confidence you have placed in us.
Please call us if we can be of further assistance.

Model Name:		TBD	Mo	64063	Lot
Address:		Lee Summit,		Lot / Blk:	
Subdivision:					

Brinkmann Constructors

Job Name:		G02R			
Structure Ref #:					
Designer:	Juan Quiroz				
OT Ref #:	J220197	Status:	Order	Date:	2/24/22

Mill Creek Truss
Building Dreams Built on Trust, Value and Commitment
3363 S Halstead Rd
Halstead, KS 67056
Office: 316-830-6108

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

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

RE: J220197-G02F - Brinkmann Constructors

Site Information:

Project Customer: Valued customer Project Name: BRINKMANN CONSTRUCTORS
Lot/Block: Subdivision:
Model:
Address: 2100 NW Lowenstein Dr
City: Lee Summit State: Mo

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

Design Code: IBC2018/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: N/A Wind Speed: N/A mph Design Method: N/A
Roof Load: N/A psf Floor Load: 75.0 psf

Mean Roof Height (feet): N/A Exposure Category: N/A

No.	Seal#	Truss Name	Date
1	I50440352	F02	2/25/22
2	I50440353	F03	2/25/22
3	I50440354	F11	2/25/22
4	I50440355	F12	2/25/22
5	I50440356	F13	2/25/22
6	I50440357	F14	2/25/22
7	I50440358	F15	2/25/22
8	I50440359	F16	2/25/22
9	I50440360	F17	2/25/22
10	I50440361	F18	2/25/22
11	I50440362	F18G	2/25/22
12	I50440363	F19	2/25/22
13	I50440364	F19G	2/25/22
14	I50440365	F21	2/25/22
15	I50440366	F22	2/25/22
16	I50440367	F23	2/25/22
17	I50440368	F24	2/25/22
18	I50440369	F25	2/25/22
19	I50440370	F26	2/25/22
20	I50440371	F27	2/25/22
21	I50440372	F28	2/25/22
22	I50440373	F28G	2/25/22
23	I50440374	F29	2/25/22
24	I50440375	F29G	2/25/22
25	I50440376	L11	2/25/22
26	I50440377	L21	2/25/22

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 03/08/2022 BY: MJF

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 3/14/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mill Creek Truss, LLC.

Truss Design Engineer's Name: Johnson, Andrew
My license renewal date for the state of Missouri is December 31, 2023.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

STATE OF MISSOURI
ANDREW THOMAS JOHNSON
NUMBER PE-2017018993
PROFESSIONAL ENGINEER

February 25,2022

Johnson, Andrew

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F02	Floor	72	1	I50440352
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:12 2022 Page 1
ID:fD9Zq7yDGZzS6mIyxxkdH_ziyi7-wVrlESN_hyyIdklmdRhTCFlBOgESeg6AurpBQwzhuFP

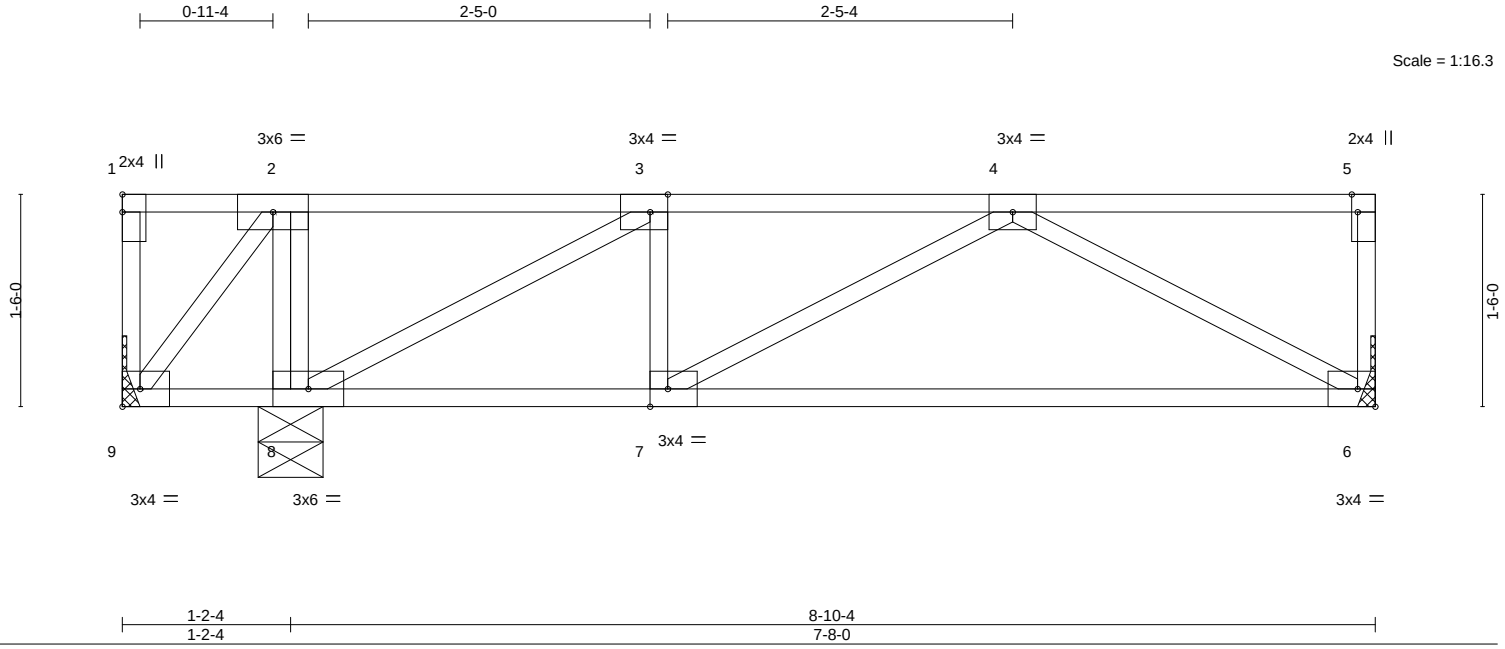


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [5:0-1-8,Edge], [7:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.01	6-7	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.29	Vert(CT)	-0.09	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 38 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 9=Mechanical, 6=Mechanical, 8=0-5-8
Max Uplift 9=-222(LC 4)
Max Grav 6=343(LC 1), 8=721(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-393/0
BOT CHORD 7-8=0/393, 6-7=0/417
WEBS 2-8=-407/0, 2-9=0/274, 4-6=-476/0, 3-8=-641/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=222.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F03	Floor	8	1	I50440353
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:13 2022 Page 1
ID:fD9Zq7yDGZzS6mIyxxkdH_ziyi7-OiP8RoOdSG49FuKzB9CikTIL74Y4N7EJ6VZkyMzhuFO

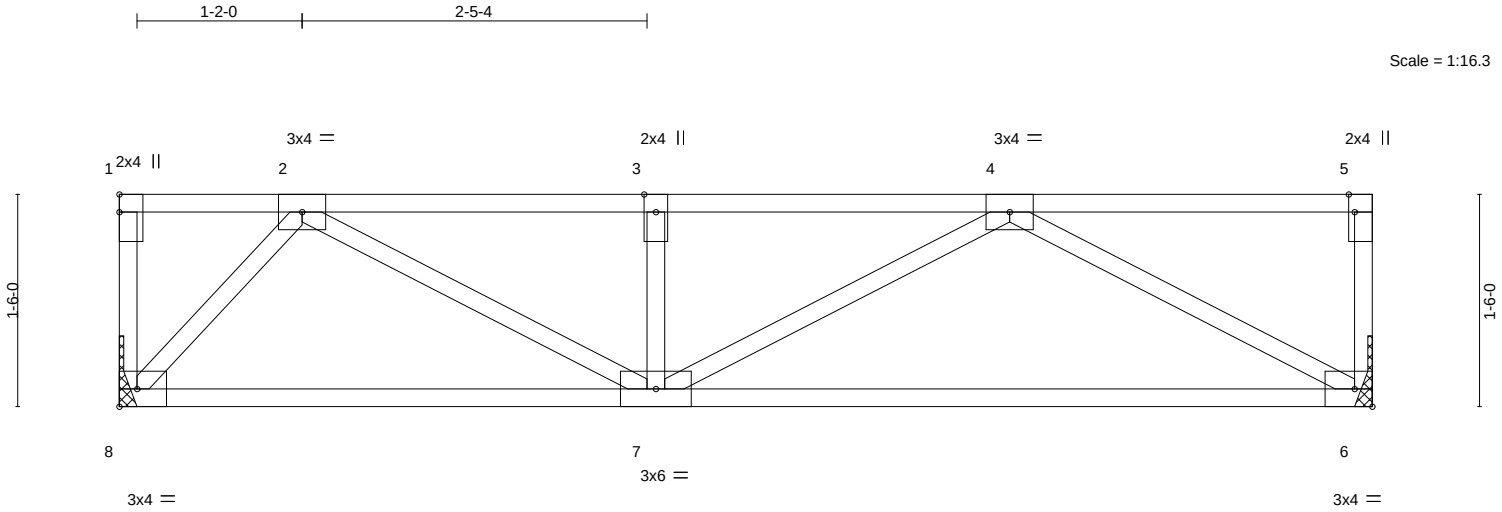


Plate Offsets (X,Y)-- [5:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.01	7	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.09	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 8=Mechanical
Max Grav 6=436(LC 1), 8=436(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-731/0, 3-4=-731/0
BOT CHORD 7-8=0/354, 6-7=0/587
WEBS 4-6=-670/0, 2-7=0/430, 2-8=-531/0

NOTES-
1) Refer to girder(s) for truss to truss connections.
2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F11	Floor	64	1	I50440354
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:13 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-OiP8RoOdSG49FuKzB9CikTIBe4TfN1jJ6VZkyMzhuFO

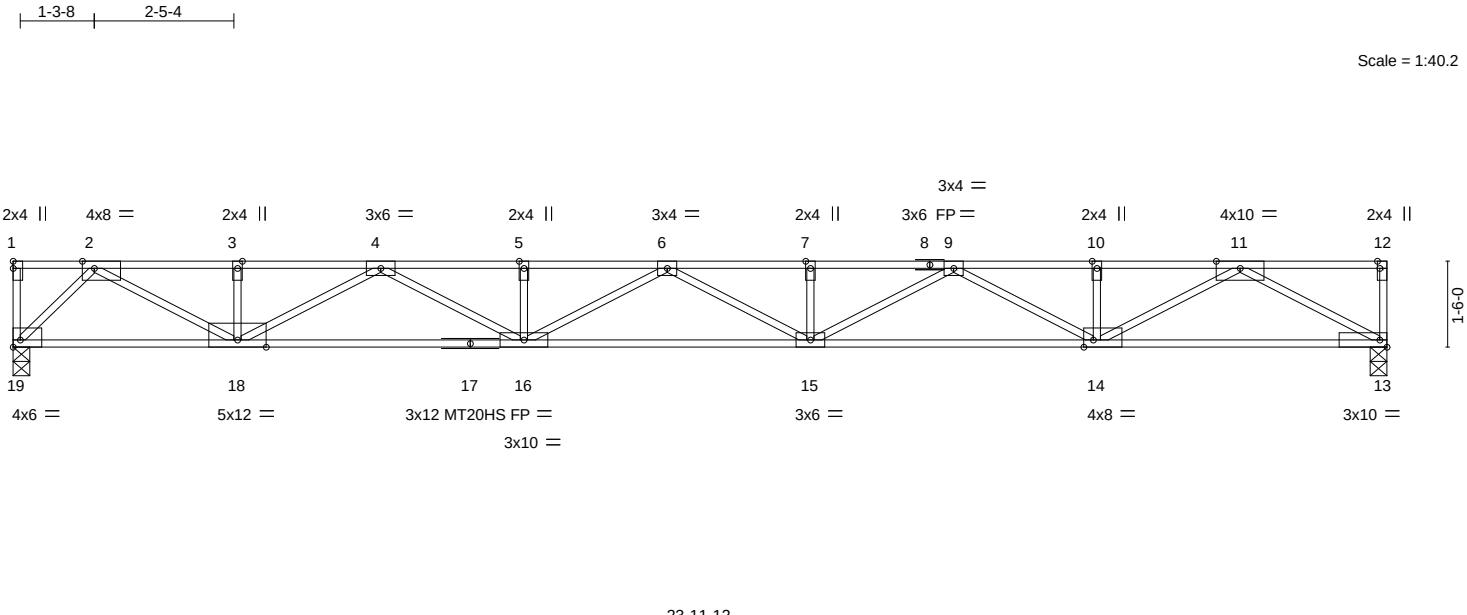


Plate Offsets (X,Y)-- [2:0-2-8,Edge], [12:0-1-8,Edge], [14:0-2-0,Edge], [19:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.38	15-16	>753	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.74	15-16	>389	360	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.10	13	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 93 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-3-8, 19=0-3-8
Max Grav 13=1193(LC 1), 19=1193(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2845/0, 3-4=-2845/0, 4-5=-4866/0, 5-6=-4866/0, 6-7=-5071/0, 7-9=-5071/0, 9-10=-3471/0, 10-11=-3471/0
BOT CHORD 18-19=0/1124, 16-18=0/4056, 15-16=0/5170, 14-15=0/4474, 13-14=0/1960
WEBS 11-13=-2237/0, 11-14=0/1724, 9-14=-1145/0, 9-15=0/681, 6-16=-348/0, 4-16=0/924, 4-18=-1381/0, 2-18=0/1965, 2-19=-1601/0

NOTES-
1) All plates are MT20 plates unless otherwise indicated.
2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F12	Floor	4	1	I50440355
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:14 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-suyWf8PFDaC0t2v9lsjxHgqTxTuO6UHTL9IIUozhuFN

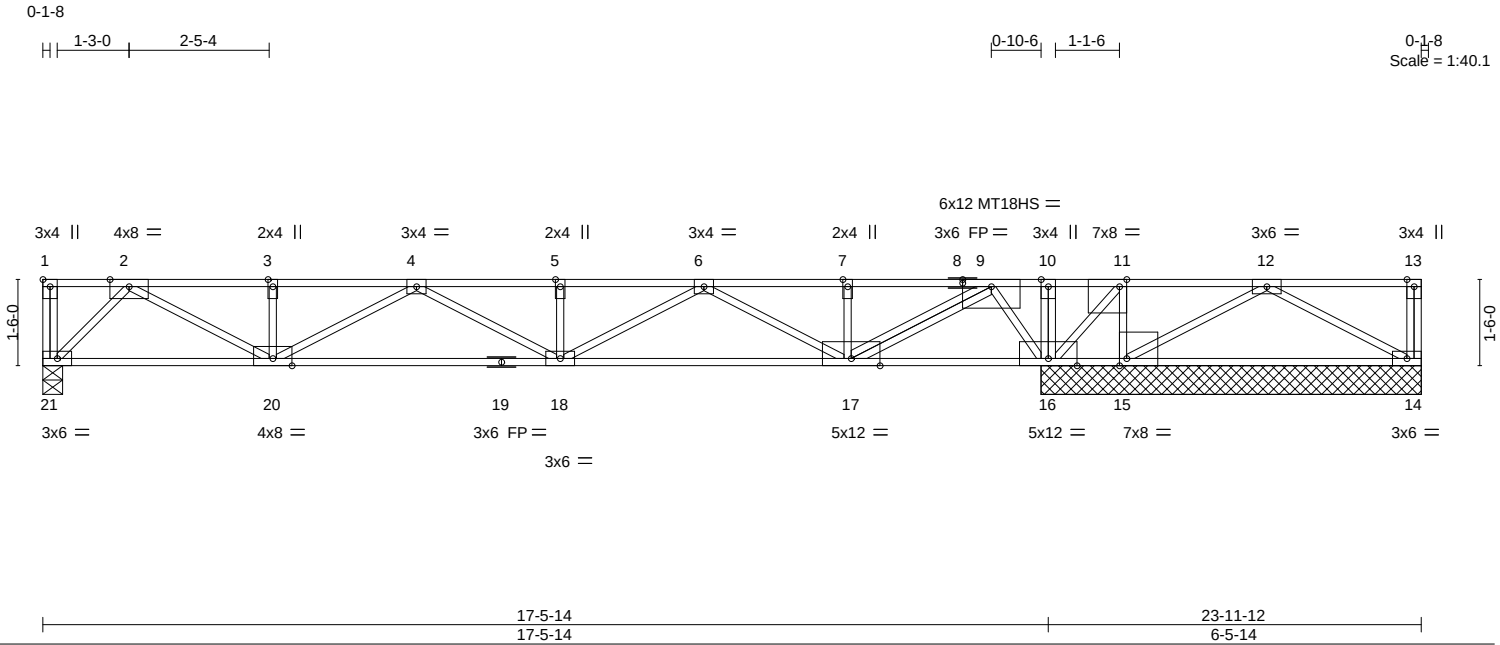


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [9:Edge,0-1-8], [11:0-1-8,Edge], [15:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.06	18	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.32	Vert(CT)	-0.18	17-18	>999	360	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.02	16	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 113 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 DF 2400F 2.0E(flat)
BOT CHORD 2x4 DF 2400F 2.0E(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 21=0-4-2, 14=6-7-6, 15=6-7-6, 16=6-7-6
Max Uplift 14=-232(LC 1), 15=-958(LC 1)
Max Grav 21=849(LC 1), 16=3973(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1892/0, 3-4=-1892/0, 4-5=-2662/0, 5-6=-2662/0, 6-7=-1585/0, 7-9=-1512/0, 9-10=0/3403, 10-11=0/3403, 11-12=0/1742
BOT CHORD 20-21=0/796, 18-20=0/2474, 17-18=0/2333, 16-17=-1754/0, 15-16=-1742/0, 14-15=-645/0
WEBS 2-21=-1125/0, 2-20=0/1252, 4-20=-664/0, 6-18=0/375, 6-17=-849/0, 7-17=-1475/0, 9-17=0/3791, 12-14=0/732, 12-15=-1252/0, 11-15=0/1614, 11-16=-2421/0, 9-16=-2649/0

NOTES-
1) All plates are MT20 plates unless otherwise indicated.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=232, 15=958.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-21=-13, 1-13=-87
Concentrated Loads (lb)
Vert: 7=-1260
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-21=-13, 1-13=-87
Concentrated Loads (lb)
Vert: 7=-1260

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F13	Floor	4	1	I50440356
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:15 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-K4WusUQt_tKtUCTLJaFAquNhotAEr_Tcap2r1EzhuFM

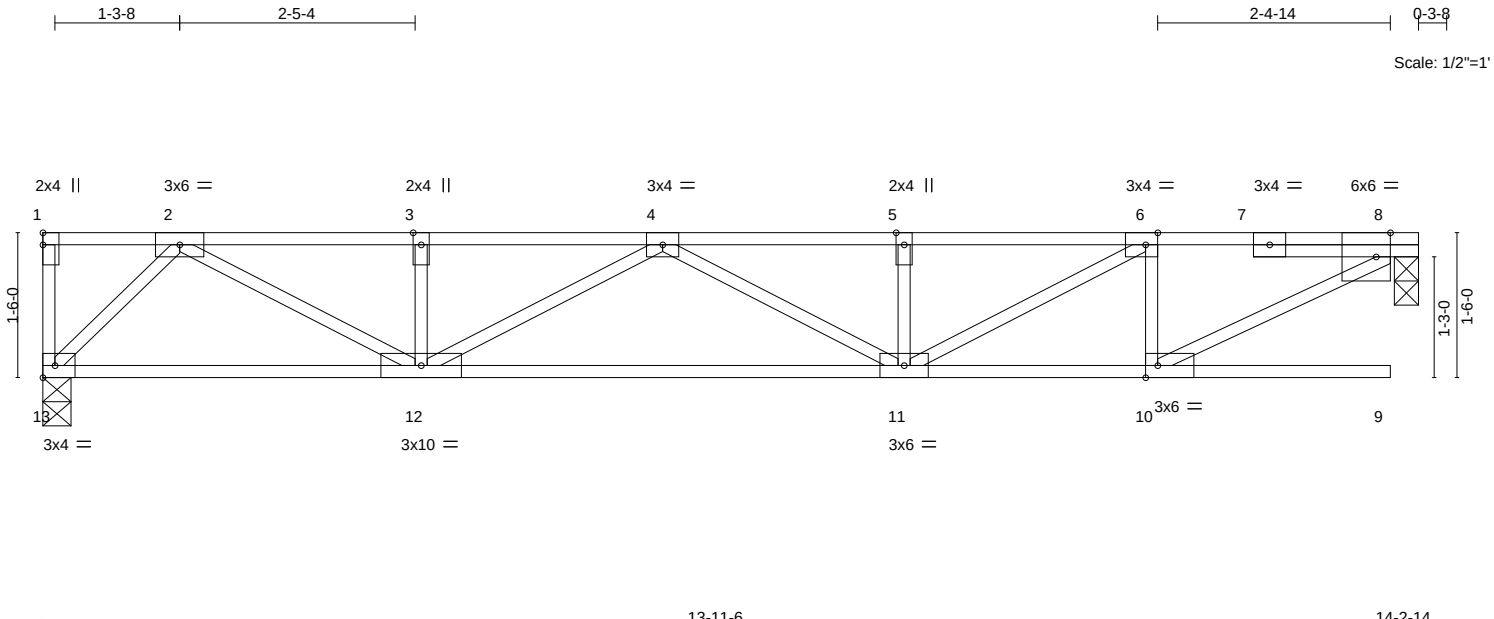


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [8:0-1-12,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.24	Vert(LL)	-0.06	11-12	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.19	9	>892	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-0, 13=0-3-8
Max Grav 8=694(LC 1), 13=694(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1457/0, 3-4=-1457/0, 4-5=-1660/0, 5-6=-1660/0, 6-8=-1087/0
BOT CHORD 12-13=0/634, 11-12=0/1753, 10-11=0/1083
WEBS 2-13=-903/0, 2-12=0/940, 4-12=-338/0, 6-11=0/654, 6-10=-513/0, 8-10=0/1227

NOTES-
1) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
4) CAUTION, Do not erect truss backwards.

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F14	FLOOR	4	1	I50440357
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:16 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-pG4G4qRVlBSk6M2YsHmPM5wsbHWiaRqmoTnOZhzhuFL

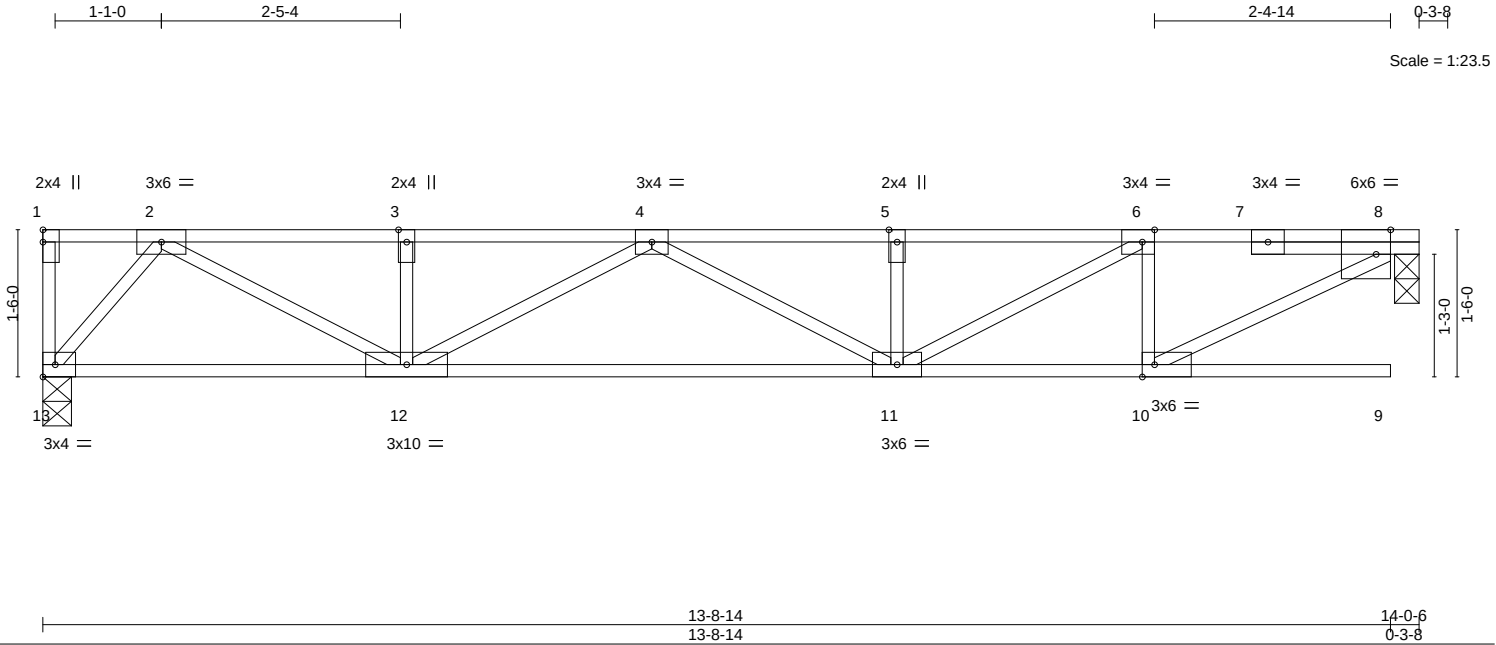


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [8:0-1-12,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.05	11-12	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.19	9	>880	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-0, 13=0-3-8
Max Grav 8=684(LC 1), 13=684(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1380/0, 3-4=-1380/0, 4-5=-1621/0, 5-6=-1621/0, 6-8=-1067/0
BOT CHORD 12-13=0/540, 11-12=0/1695, 10-11=0/1064
WEBS 2-13=-843/0, 2-12=0/959, 4-12=-359/0, 6-11=0/633, 6-10=-504/0, 8-10=0/1205

NOTES-
1) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
4) CAUTION, Do not erect truss backwards.

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

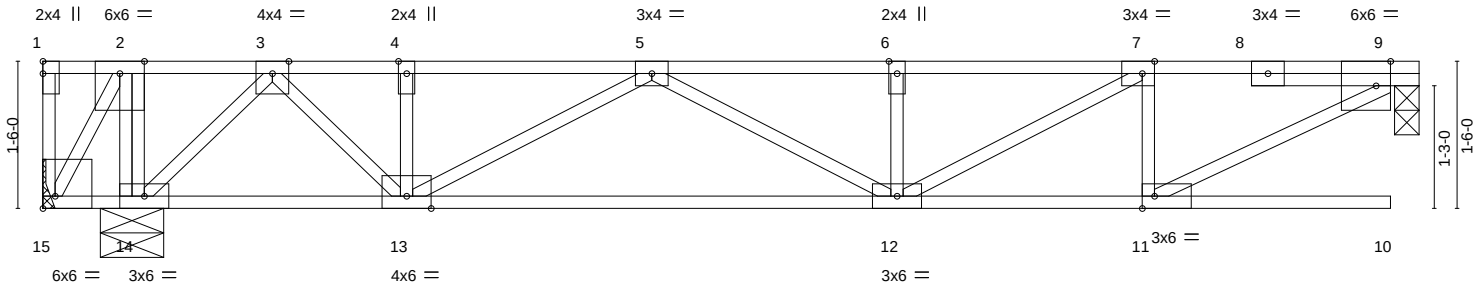
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F15	FLOOR	4	1	I50440358
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:16 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-pG4G4qRVlBSk6M2YsHmPM5wroHZOaQ6moTnOZhzhuFL

Scale = 1:23.5



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

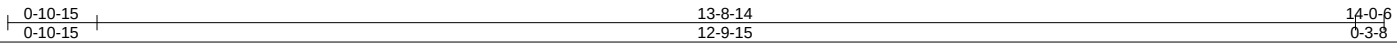


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [9:0-1-12,Edge], [11:0-1-8,Edge], [15:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.03	12-13	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.19	10	>824	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	-0.00	9	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 60 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 9=0-3-0, 15=Mechanical, 14=0-7-12
Max Uplift 15=-1179(LC 4)
Max Grav 9=563(LC 1), 14=1960(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/716, 3-4=-486/0, 4-5=-486/0, 5-6=-1178/0, 6-7=-1178/0, 7-9=-851/0
BOT CHORD 14-15=-716/0, 12-13=0/1034, 11-12=0/847
WEBS 2-14=-1297/0, 2-15=0/1366, 9-11=0/960, 7-11=-389/0, 7-12=0/376, 5-13=-625/0, 3-14=-918/0, 3-13=0/766

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=1179.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
8) CAUTION, Do not erect truss backwards.

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F16	FLOOR	4	1	I50440359
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:17 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-HTeeHAR7WVabkVdkQ?HevJS?whwBJwjv17Xy57zhuFK

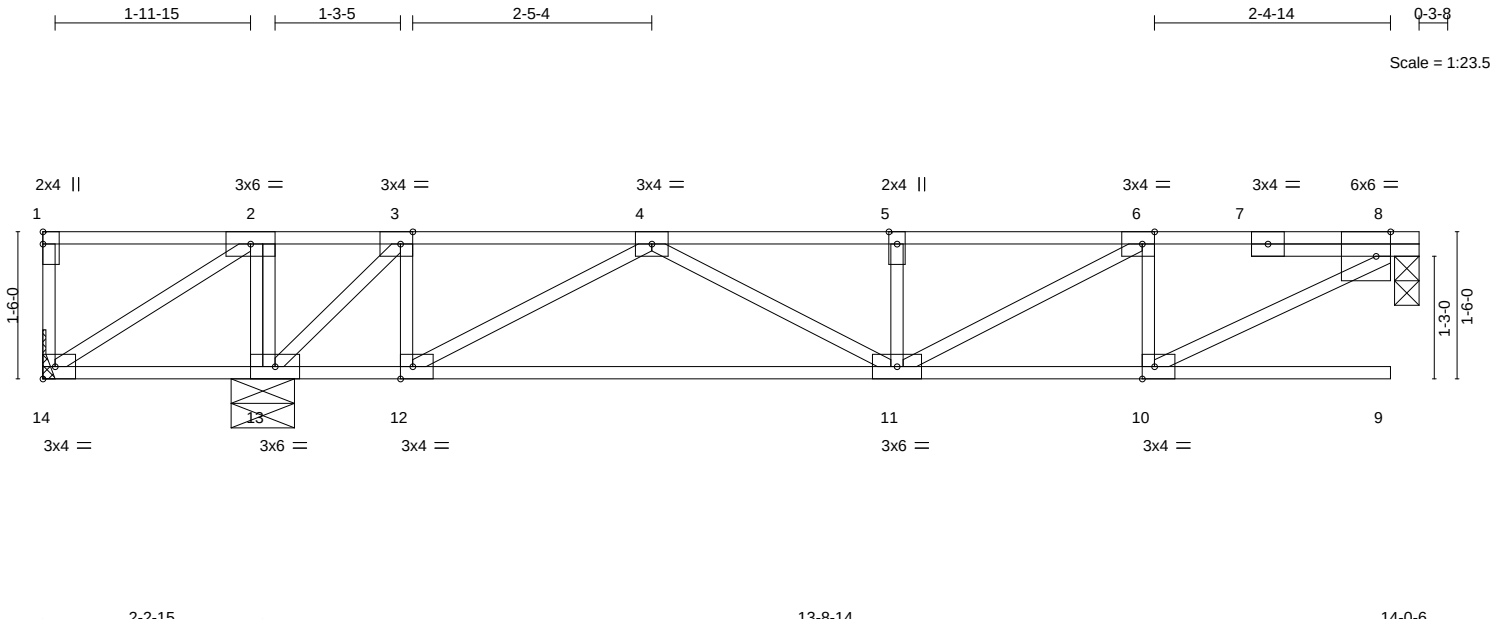


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [6:0-1-8,Edge], [8:0-1-12,Edge], [10:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.02	11	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.38	Vert(CT)	-0.19	9	>743	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 59 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14.

REACTIONS. (size) 8=0-3-0, 14=Mechanical, 13=0-7-12
Max Uplift 14=-353(LC 4)
Max Grav 8=498(LC 4), 13=1167(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/620, 4-5=-944/0, 5-6=-944/0, 6-8=-736/0
BOT CHORD 13-14=-620/0, 11-12=0/684, 10-11=0/733
WEBS 2-13=-568/0, 2-14=0/734, 8-10=0/830, 6-10=-329/0, 4-11=0/297, 4-12=-763/0, 3-12=0/427, 3-13=-878/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=353.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
7) CAUTION, Do not erect truss backwards.

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F17	FLOOR	4	1	I50440360
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:18 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-lfC1UWSlHoiSLfCw_iotRW?AL5Go2NO2GnGVeZzhuFJ

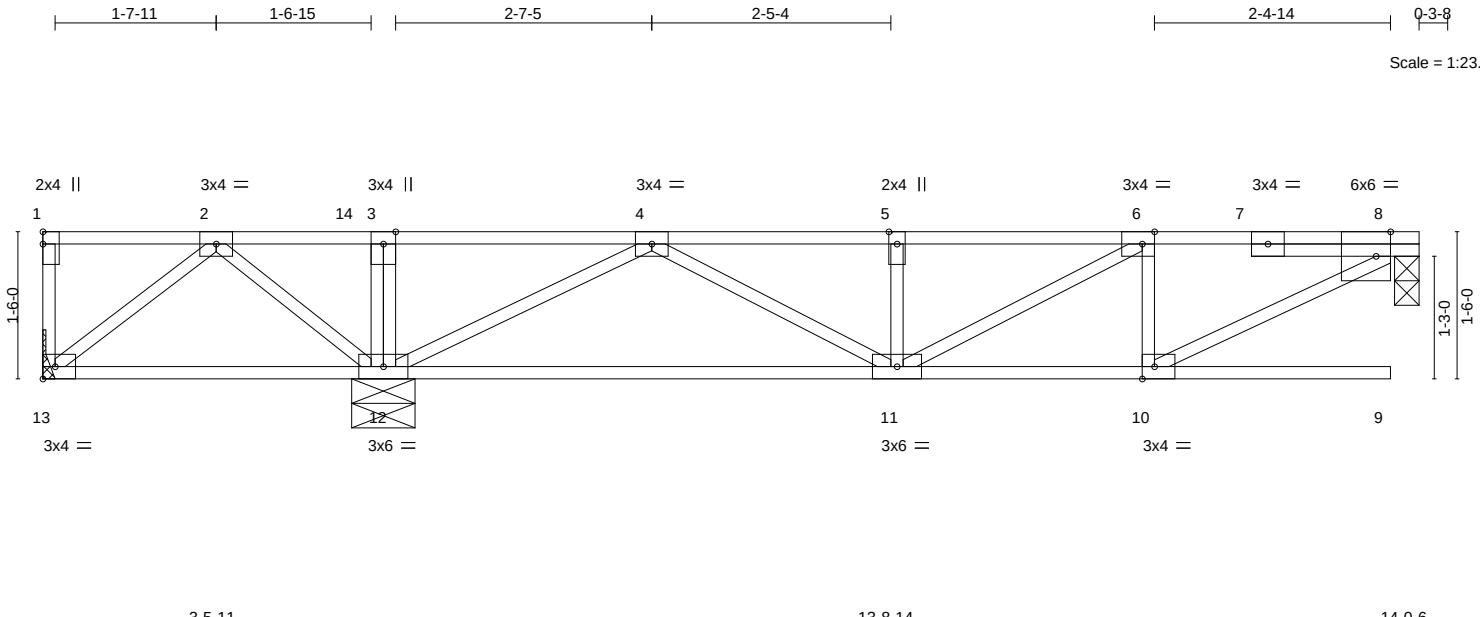


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [8:0-1-12,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.02	11	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.19	9	>660	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 58 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.

REACTIONS. (size) 8=0-3-0, 12=0-7-12, 13=Mechanical
Max Uplift 13=-133(LC 4)
Max Grav 8=441(LC 4), 12=975(LC 1), 13=63(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/485, 3-4=0/489, 4-5=-733/0, 5-6=-733/0, 6-8=-634/0
BOT CHORD 11-12=0/372, 10-11=0/630
WEBS 8-10=0/714, 6-10=-275/0, 4-11=0/416, 4-12=-956/0, 2-13=0/276, 2-12=-427/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=133.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
7) CAUTION, Do not erect truss backwards.

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F18	Floor	8	1	I50440361
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:18 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-lfC1UWSlHoiSLfCw_iotRW?3q5Au2Jw2GnGVeZzhuFJ

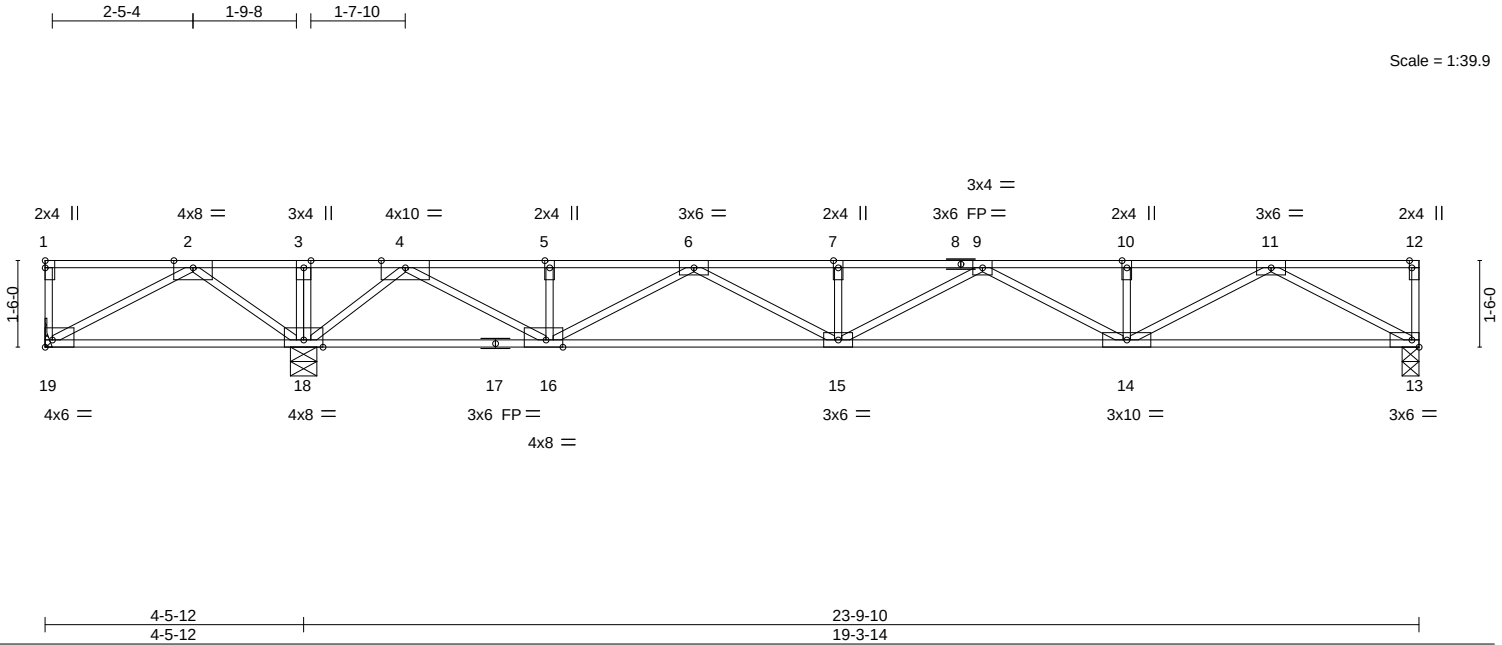


Plate Offsets (X,Y)-- [12:0-1-8,Edge], [16:0-3-8,Edge], [19:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.12	14-15	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.23	14-15	>984	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 13=0-3-8, 18=0-5-8, 19=Mechanical
Max Uplift 19=-633(LC 4)
Max Grav 13=795(LC 4), 18=2096(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/2338, 3-4=0/2338, 4-5=-533/0, 5-6=-533/0, 6-7=-2187/0, 7-9=-2187/0, 9-10=-2028/0, 10-11=-2028/0
BOT CHORD 18-19=-1251/0, 16-18=-1015/0, 15-16=0/1557, 14-15=0/2307, 13-14=0/1237
WEBS 2-19=0/1428, 2-18=-1468/0, 11-13=-1412/0, 11-14=0/903, 9-14=-318/0, 6-15=0/722, 6-16=-1171/0, 4-16=0/1749, 4-18=-1681/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=633.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F18G	Floor Special	4	1	I50440362
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:19 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-DrmPisTN26qJzpn6YQJ6_kYJTUUunjMCVR03A0zhuFI

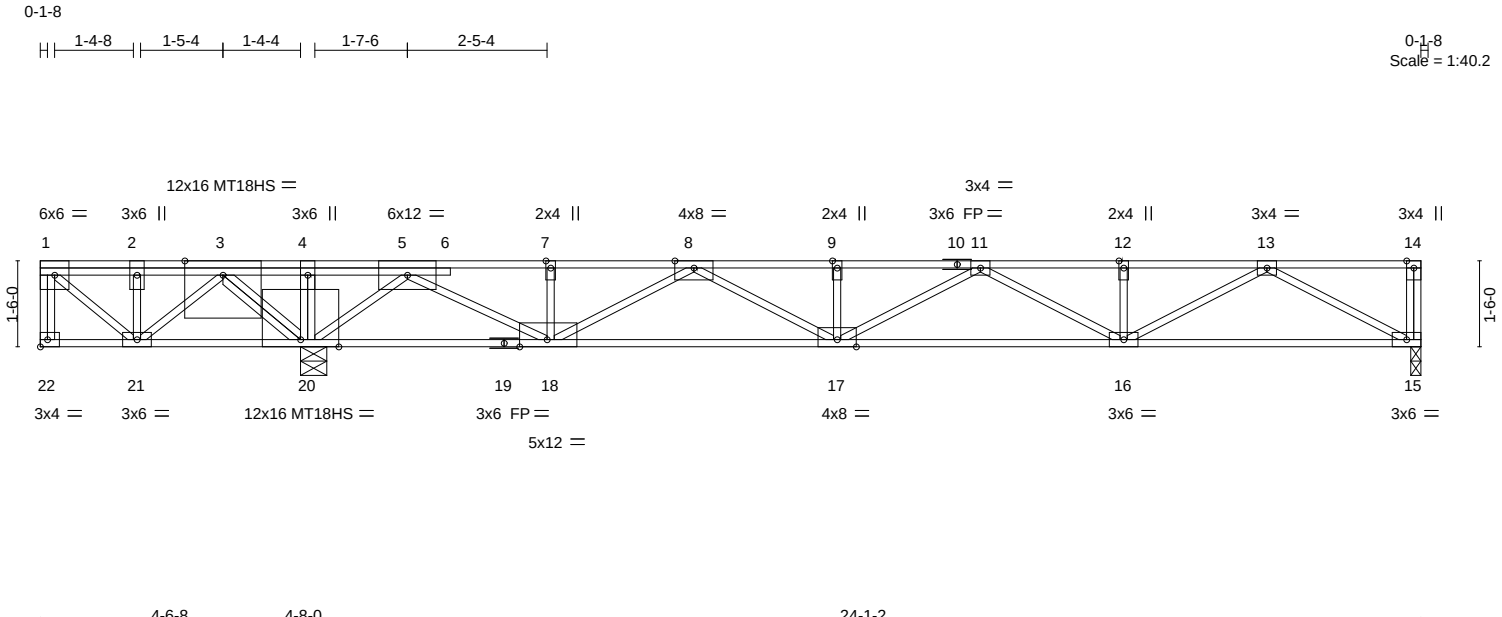


Plate Offsets (X,Y)-- [18:0-5-12,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.14	17	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	0.12	17	>999	360	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.67	Horz(CT)	-0.05	15	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 116 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 DF 2400F 2.0E(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 20=0-5-8, 15=0-2-2
Max Grav 20=6837(LC 1), 15=570(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=0/6113, 4-5=0/6113, 5-7=0/3504, 7-8=0/3504, 8-9=-536/1484, 9-11=-536/1484, 11-12=-1216/298, 12-13=-1216/298
BOT CHORD 20-21=-410/0, 18-20=-4977/0, 17-18=-2423/0, 16-17=-813/1075, 15-16=-62/844
WEBS 4-20=-271/0, 13-15=-958/71, 13-16=-269/424, 11-16=0/589, 11-17=-765/0, 8-17=0/1254, 8-18=-1700/0, 5-18=0/2388, 5-20=-2156/0, 3-21=0/454, 3-20=-7742/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-14=-87
Concentrated Loads (lb)
Vert: 3=-5000
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-14=-87
Concentrated Loads (lb)
Vert: 3=-5000
3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-4=-87, 4-14=-33

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F18G	Floor Special	4	1	I50440362 Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-5000
4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-4=-33, 4-14=-87
Concentrated Loads (lb)
Vert: 3=-5000
5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-4=-87, 4-14=-33
Concentrated Loads (lb)
Vert: 3=-5000
6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-4=-33, 4-14=-87
Concentrated Loads (lb)
Vert: 3=-5000

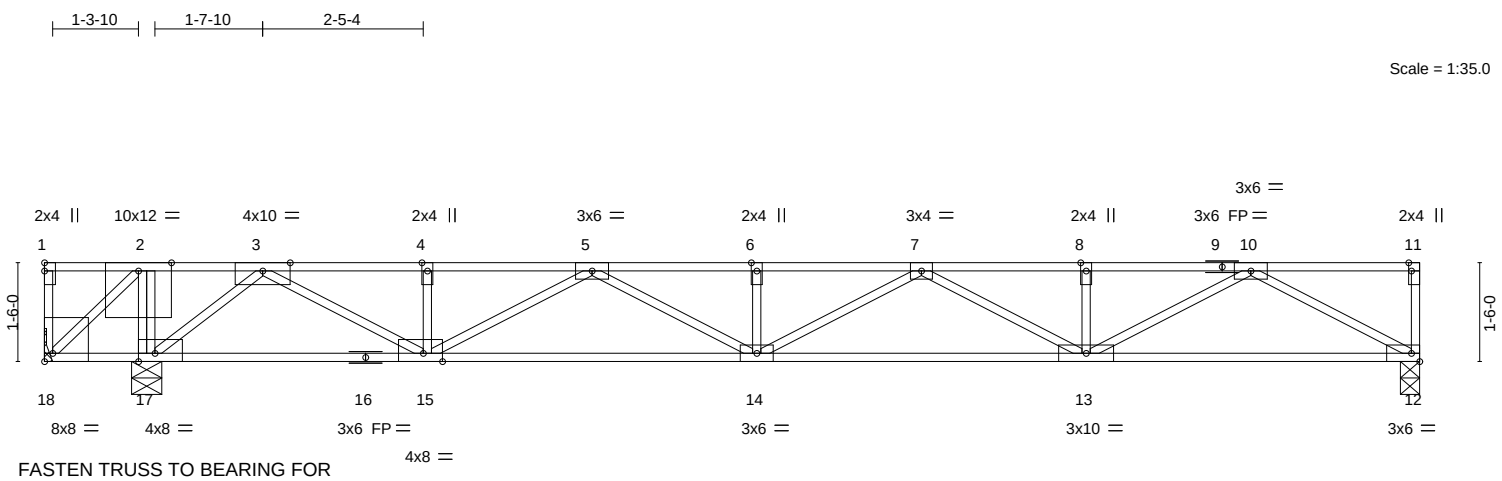
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F19	Floor	24	1	I50440363
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:20 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-h2KnvCU0pQyAbzMJ57qLXx4QjurDW7kLj5lciSzhuFH



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

1-6-10 / 1-6-10 — 20-10-8 / 19-3-14

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [15:0-3-8,Edge], [17:0-3-0,Edge], [18:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.12	13-14	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.24	13-14	>963	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 84 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 12=0-3-8, 18=Mechanical, 17=0-5-8
Max Uplift 18=-2061(LC 4)
Max Grav 12=801(LC 4), 17=3296(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/2230, 3-4=-604/0, 4-5=-604/0, 5-6=-2233/0, 6-7=-2233/0, 7-8=-2052/0, 8-10=-2052/0
BOT CHORD 17-18=-2230/0, 15-17=-919/0, 14-15=0/1615, 13-14=0/2342, 12-13=0/1249
WEBS 2-17=-2218/0, 2-18=0/3034, 10-12=-1425/0, 10-13=0/916, 7-13=-331/0, 5-14=0/705, 5-15=-1154/0, 3-15=0/1738, 3-17=-1665/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=2061.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F19G	Floor Girder	4	1	I50440364
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:21 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-9Et97XUeaj40C7xVfqMa39dXPIB2FZrVylV9EuzhuFG

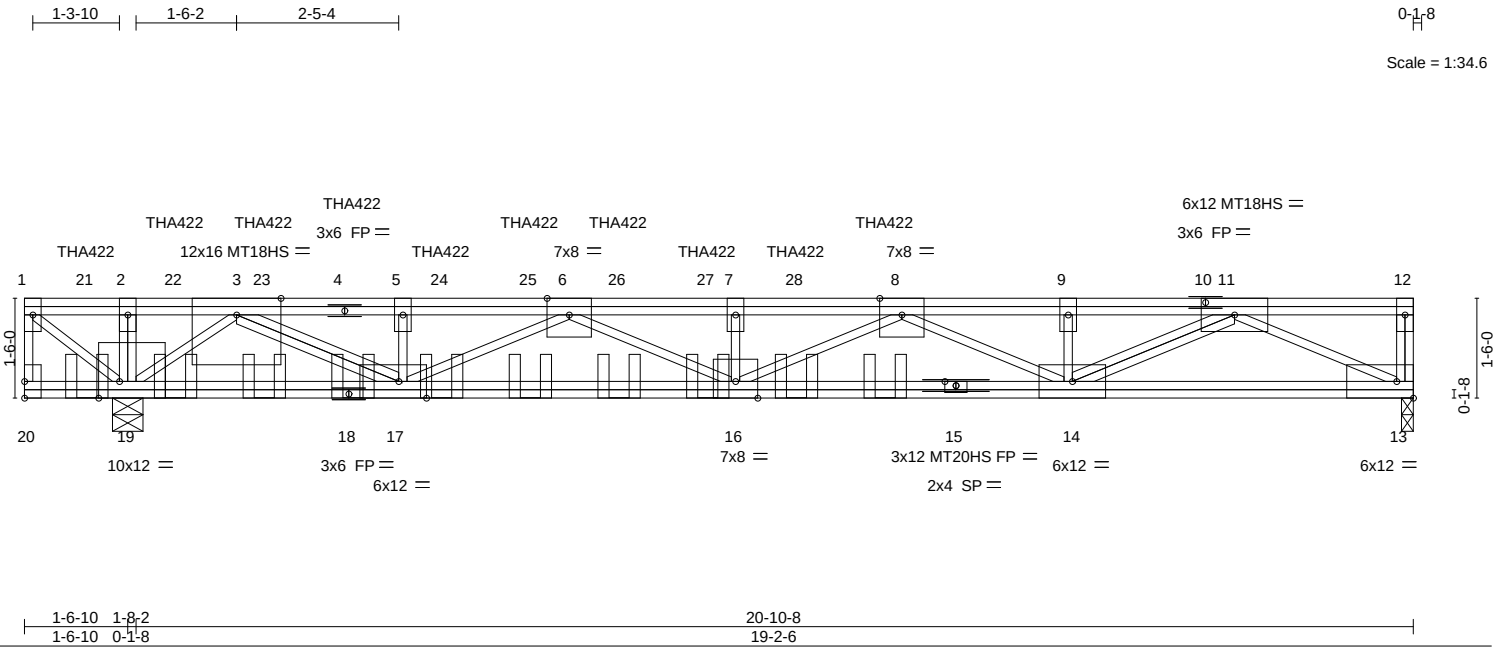


Plate Offsets (X,Y)-- [17:0-5-0,Edge], [19:0-3-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	1.00	Vert(LL)	-0.29	16	>790	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.56	16	>412	360	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.07	13	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 139 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat) *Except*
18-20: 2x4 SPF No.2(flat), 13-18: 2x4 DF 2400F 2.0E(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-2-2, 19=0-5-8
Max Grav 13=2188(LC 4), 19=3633(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-7489/0, 5-6=-7542/0, 6-7=-10700/0, 7-8=-10700/0, 8-9=-7165/0, 9-11=-7145/0
BOT CHORD 17-19=0/3659, 16-17=0/9977, 14-16=0/9676, 13-14=0/4297
WEBS 2-19=-732/0, 11-13=-4694/0, 11-14=0/3232, 9-14=-309/0, 8-14=-2790/0, 8-16=0/1190, 7-16=-788/0, 6-16=0/817, 6-17=-2712/0, 5-17=-818/0, 3-17=0/4363, 3-19=-4605/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x6 MT20 unless otherwise indicated.
4) The Fabrication Tolerance at joint 15 = 11%
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.
9) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 1-4-0 oc max. starting at 0-11-4 from the left end to 12-11-4 to connect truss(es) to front face of top chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-20=-20, 1-12=-130
Concentrated Loads (lb)
Vert: 8=-295(F) 4=-260(F) 21=-345(F) 22=-260(F) 23=-260(F) 24=-260(F) 25=-260(F) 26=-260(F) 27=-260(F) 28=-260(F)

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F21	Floor	64	1	I50440365
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:22 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-dQRXKtVGK1CtqHWhDYtpcM9keiYv_6ueBPEjnKzhuFF

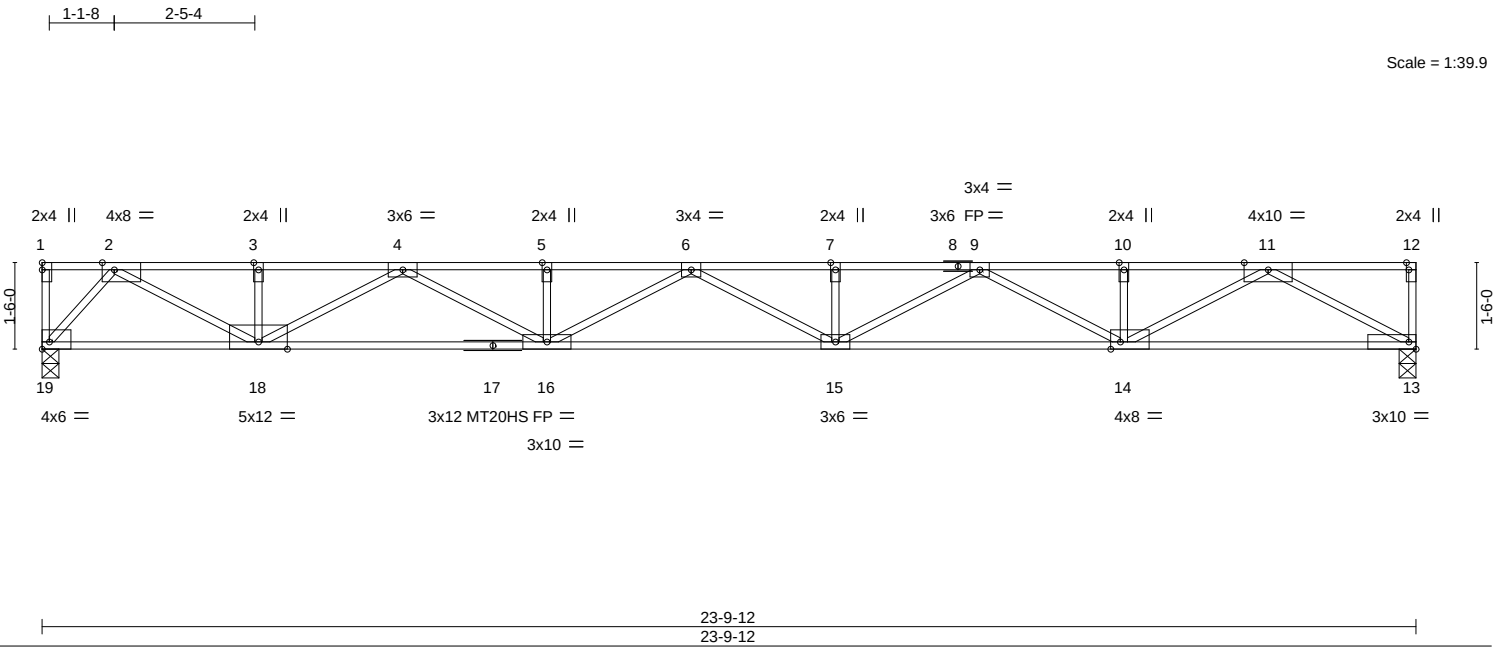


Plate Offsets (X,Y)-- [2:0-2-8,Edge], [12:0-1-8,Edge], [14:0-2-0,Edge], [19:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.37	15-16	>768	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.72	15-16	>397	360	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.10	13	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 93 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-3-8, 19=0-3-8
Max Grav 13=1184(LC 1), 19=1184(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2724/0, 3-4=-2724/0, 4-5=-4775/0, 5-6=-4775/0, 6-7=-5011/0, 7-9=-5011/0, 9-10=-3441/0, 10-11=-3441/0
BOT CHORD 18-19=0/989, 16-18=0/3949, 15-16=0/5095, 14-15=0/4429, 13-14=0/1945
WEBS 11-13=-2220/0, 11-14=0/1707, 9-14=-1128/0, 9-15=0/664, 6-16=-365/0, 4-16=0/942, 4-18=-1399/0, 2-18=0/1980, 2-19=-1512/0

NOTES-
1) All plates are MT20 plates unless otherwise indicated.
2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 25,2022

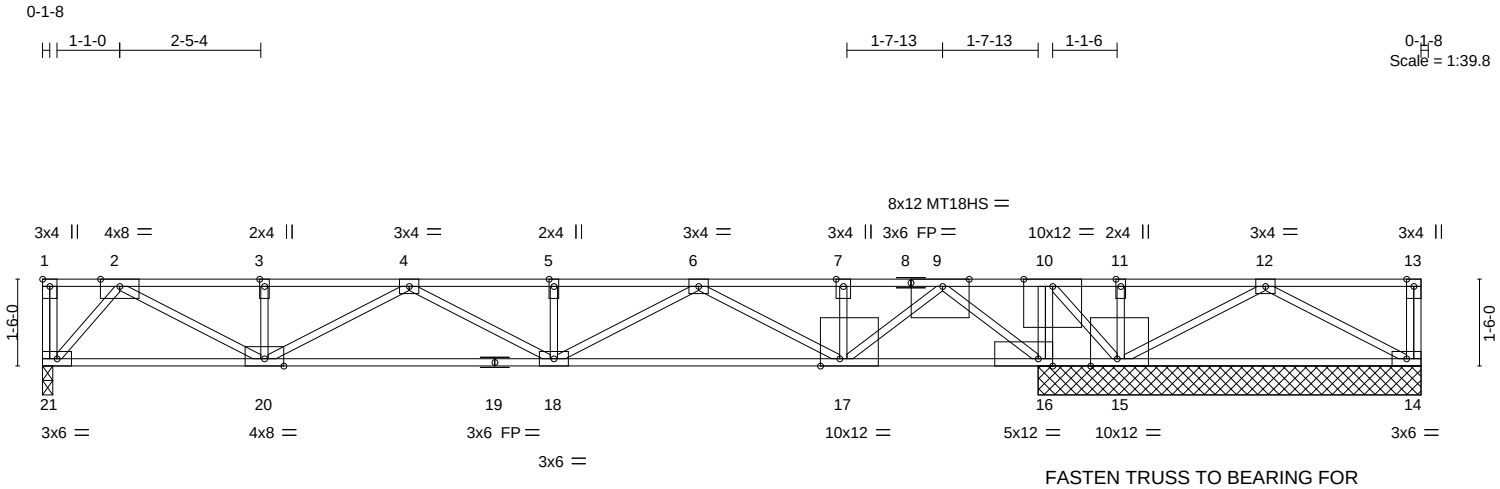
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F22	Floor	4	1	I50440366
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:23 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-5d?wYDWu5LKkSQ5unFO28aizG6s6jTPoP3_GJnzhuFE



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

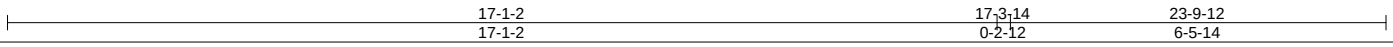


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [9:0-5-8,Edge], [15:0-5-8,Edge], [16:0-3-0,Edge], [17:0-4-0,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.07	18	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.23	17-18	>904	360	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.03	16	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 99 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat) *Except* 8-13: 2x4 SPF 2100F 1.8E(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 21=0-2-2, 16=6-7-6, 14=6-7-6, 15=6-7-6
Max Uplift 14=-212(LC 1), 15=-1329(LC 1)
Max Grav 21=819(LC 1), 16=4338(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1755/0, 3-4=-1755/0, 4-5=-2475/0, 5-6=-2475/0, 6-7=-1362/0, 7-9=-1362/0, 9-10=0/3659, 10-11=0/1673, 11-12=0/1673
BOT CHORD 20-21=0/683, 18-20=0/2312, 17-18=0/2125, 16-17=-1019/0, 15-16=-3659/0, 14-15=-606/0
WEBS 10-16=-2268/0, 2-21=-1034/0, 2-20=0/1223, 4-20=-636/0, 6-18=0/399, 6-17=-871/0, 7-17=-1438/0, 12-14=0/687, 12-15=-1218/0, 10-15=0/2889, 9-17=0/3053, 9-16=-3338/0

NOTES-
1) All plates are MT20 plates unless otherwise indicated.
2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=212, 15=1329.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
6) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-21=-13, 1-13=-87
Concentrated Loads (lb)
Vert: 7=-1260
2) Dead: Lumber Increase=1.00, Plate Increase=1.00

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F22	Floor	4	1	I50440366 Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 14-21=-13, 1-13=-87
Concentrated Loads (lb)
Vert: 7=-1260

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F23	Floor	4	1	I50440367
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:23 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-5d?wYDWu5LKkSQ5unFO28ai3p6vIjbboP3_GJnzhuFE

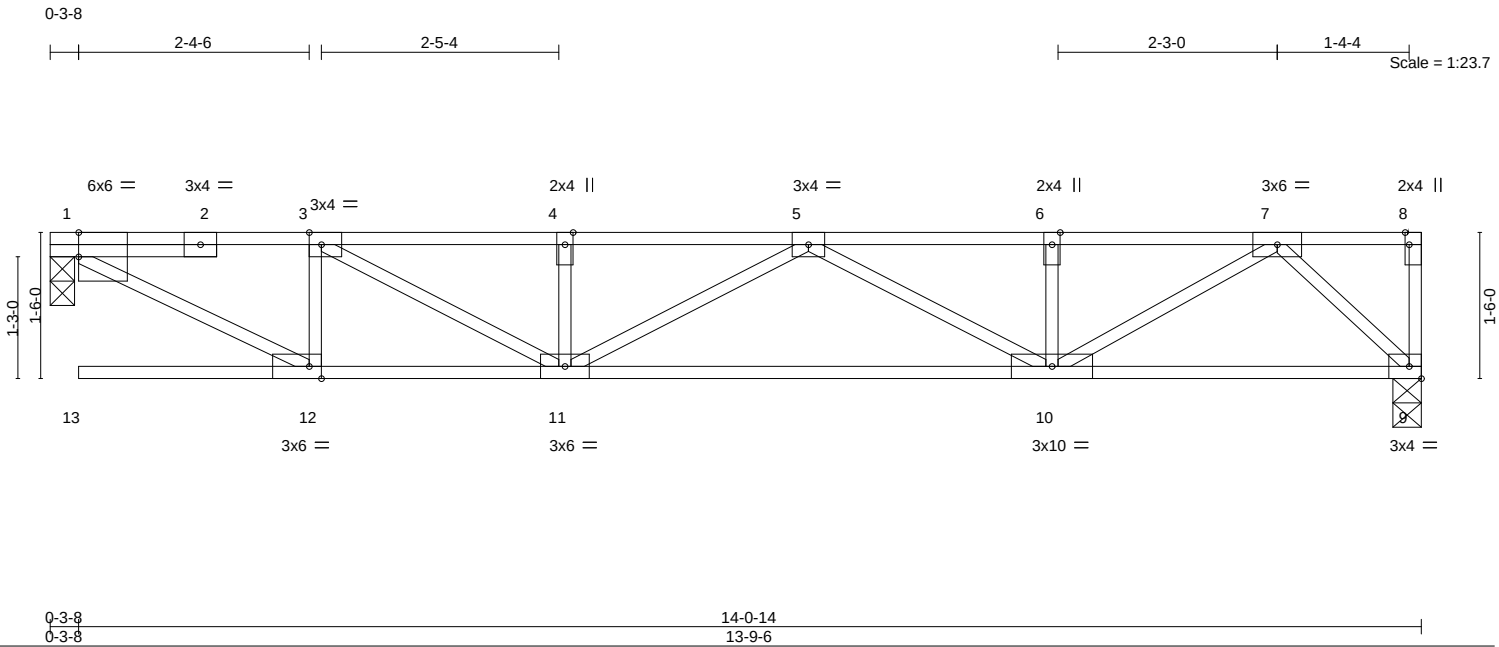


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [8:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.05	10-11	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.18	13	>935	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 1=0-3-0
Max Grav 9=686(LC 1), 1=686(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1057/0, 3-4=-1624/0, 4-5=-1624/0, 5-6=-1403/0, 6-7=-1403/0
BOT CHORD 11-12=0/1054, 10-11=0/1710, 9-10=0/647
WEBS 7-9=-902/0, 7-10=0/879, 5-10=-350/0, 3-11=0/647, 3-12=-508/0, 1-12=0/1198

NOTES-
1) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
4) CAUTION, Do not erect truss backwards.

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F24	FLOOR	4	1	I50440368
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:24 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-apZIlZXWseSb3ag4KzvHhnFEcVFlS2txeijprDzhuFD

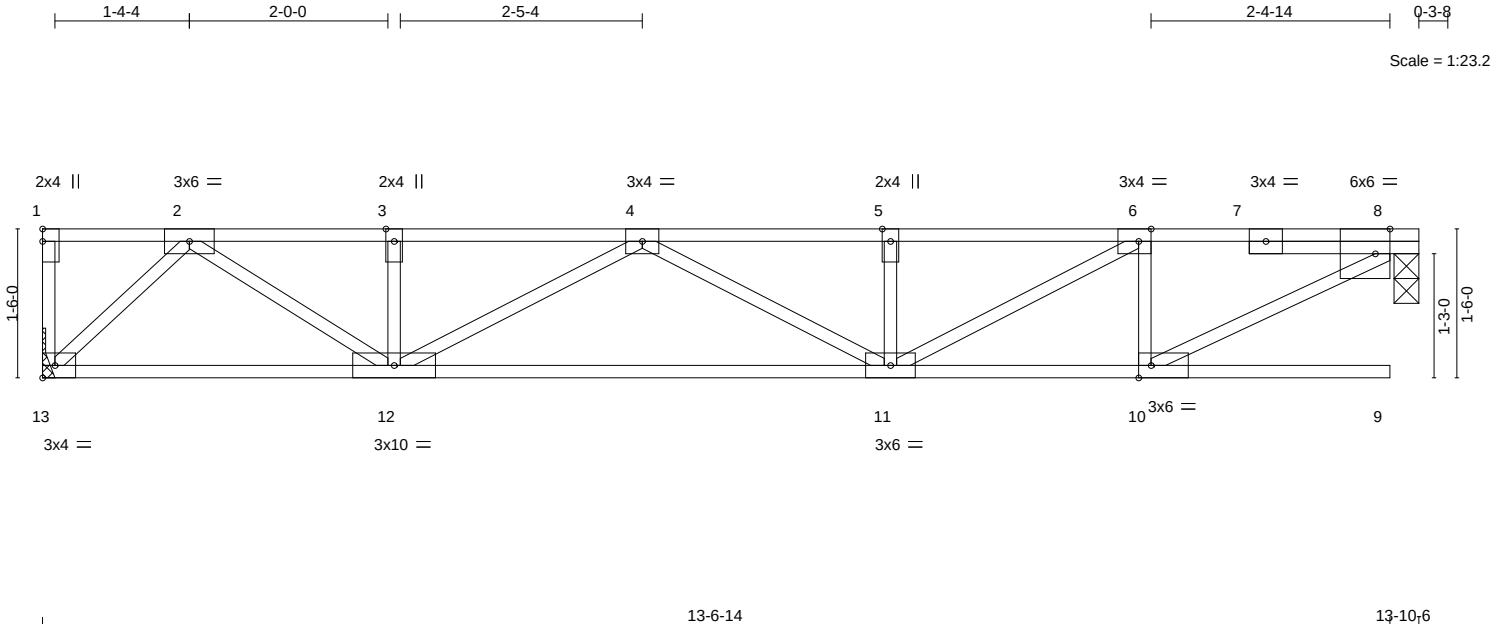


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [8:0-1-12,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.05	11-12	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.19	9	>869	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 56 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-0, 13=Mechanical
Max Grav 8=676(LC 1), 13=676(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1314/0, 3-4=-1314/0, 4-5=-1590/0, 5-6=-1590/0, 6-8=-1052/0
BOT CHORD 12-13=0/634, 11-12=0/1651, 10-11=0/1049
WEBS 2-13=-883/0, 2-12=0/818, 4-12=-385/0, 6-11=0/615, 6-10=-496/0, 8-10=0/1188

NOTES-
1) Refer to girder(s) for truss to truss connections.
2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
5) CAUTION, Do not erect truss backwards.

February 25,2022

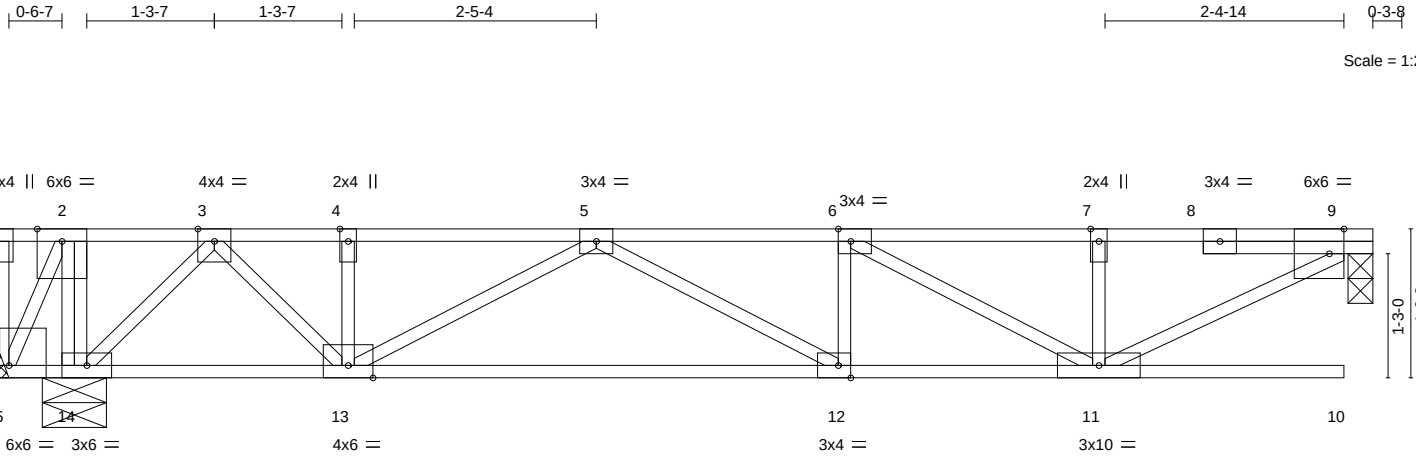
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F25	FLOOR	4	1	I50440369
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:25 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-2?7gyvY8dybShkEGugQWE?nOqvdBBUJ4tMTNNfzhuFC



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

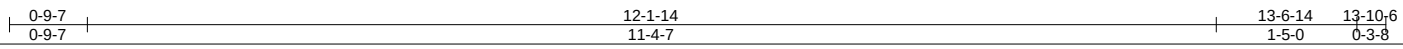


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [9:0-1-12,Edge], [12:0-1-8,Edge], [15:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.03	12-13	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.19	10	>816	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	-0.00	9	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 60 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15.

REACTIONS. (size) 9=0-3-0, 15=Mechanical, 14=0-7-12
Max Uplift 15=-1242(LC 4)
Max Grav 9=568(LC 1), 14=2004(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/638, 3-4=-530/0, 4-5=-530/0, 5-6=-1201/0, 6-7=-858/0, 7-9=-861/0
BOT CHORD 14-15=-638/0, 12-13=0/1067, 11-12=0/1201
WEBS 2-14=-1349/0, 2-15=0/1373, 9-11=0/972, 6-11=-389/0, 5-13=-613/0, 3-14=-896/0, 3-13=0/751

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=1242.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
8) CAUTION, Do not erect truss backwards.

February 25,2022

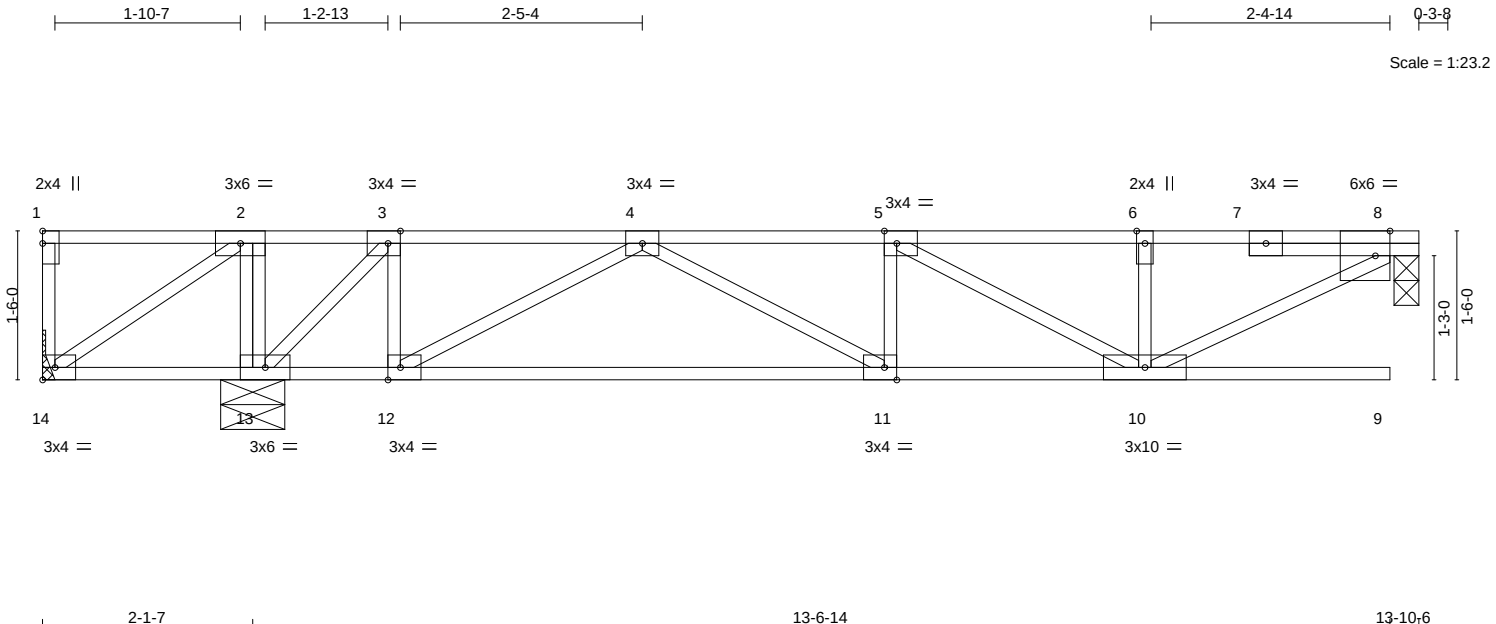
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F26	FLOOR	4	1	I50440370
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:25 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-2?7gyvY8dybShkEGugQWE?nOCveEBXj4tMTNNfzhuFC



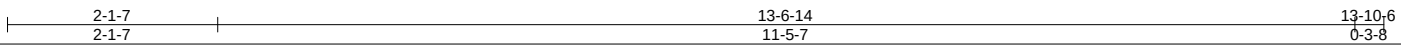


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [5:0-1-8,Edge], [8:0-1-12,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.02	11	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.19	9	>736	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 59 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14.

REACTIONS. (size) 8=0-3-0, 14=Mechanical, 13=0-7-12
Max Uplift 14=-376(LC 4)
Max Grav 8=497(LC 4), 13=1178(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/616, 4-5=-938/0, 5-6=-730/0, 6-8=-733/0
BOT CHORD 13-14=-616/0, 11-12=0/675, 10-11=0/938
WEBS 2-13=-577/0, 2-14=0/741, 8-10=0/827, 4-11=0/300, 4-12=-765/0, 3-12=0/428, 3-13=-868/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=376.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
7) CAUTION, Do not erect truss backwards.

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F27	FLOOR	4	1	I50440371
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:26 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-WCh2AFYnOGjJJupTSOxlmCKYPJ_hw_RE60Cww6zhuFB

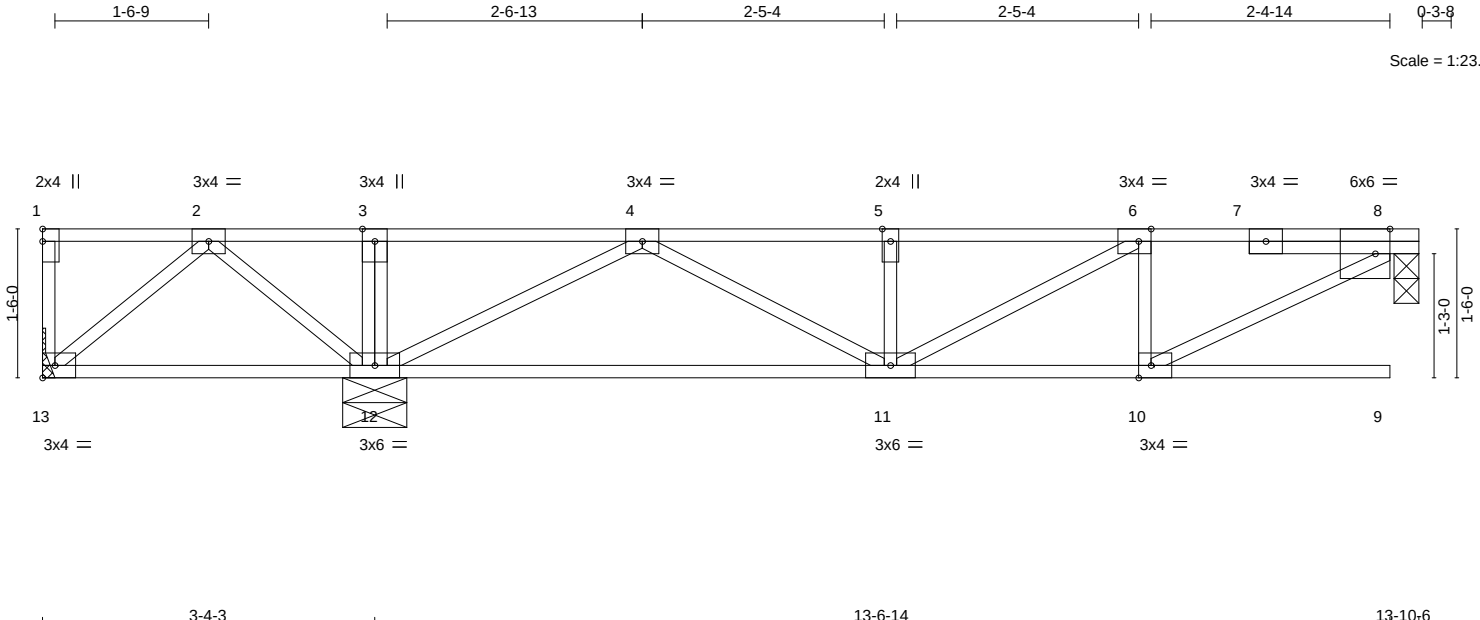


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [8:0-1-12,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.02	11	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.35	Vert(CT)	-0.19	9	>658	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.

REACTIONS. (size) 13=Mechanical, 8=0-3-0, 12=0-7-12
Max Uplift 13=-144(LC 4)
Max Grav 13=55(LC 3), 8=439(LC 4), 12=974(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/484, 3-4=0/487, 4-5=-725/0, 5-6=-725/0, 6-8=-630/0
BOT CHORD 11-12=0/360, 10-11=0/627
WEBS 8-10=0/710, 6-10=-272/0, 4-11=0/421, 4-12=-945/0, 2-13=0/281, 2-12=-425/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=144.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
7) CAUTION, Do not erect truss backwards.

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F28	Floor	8	1	I50440372
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:27 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-_OFQNbZP9ZrAw2Of05S_JQtd1jBkfPxNKgyUSYzhuFA

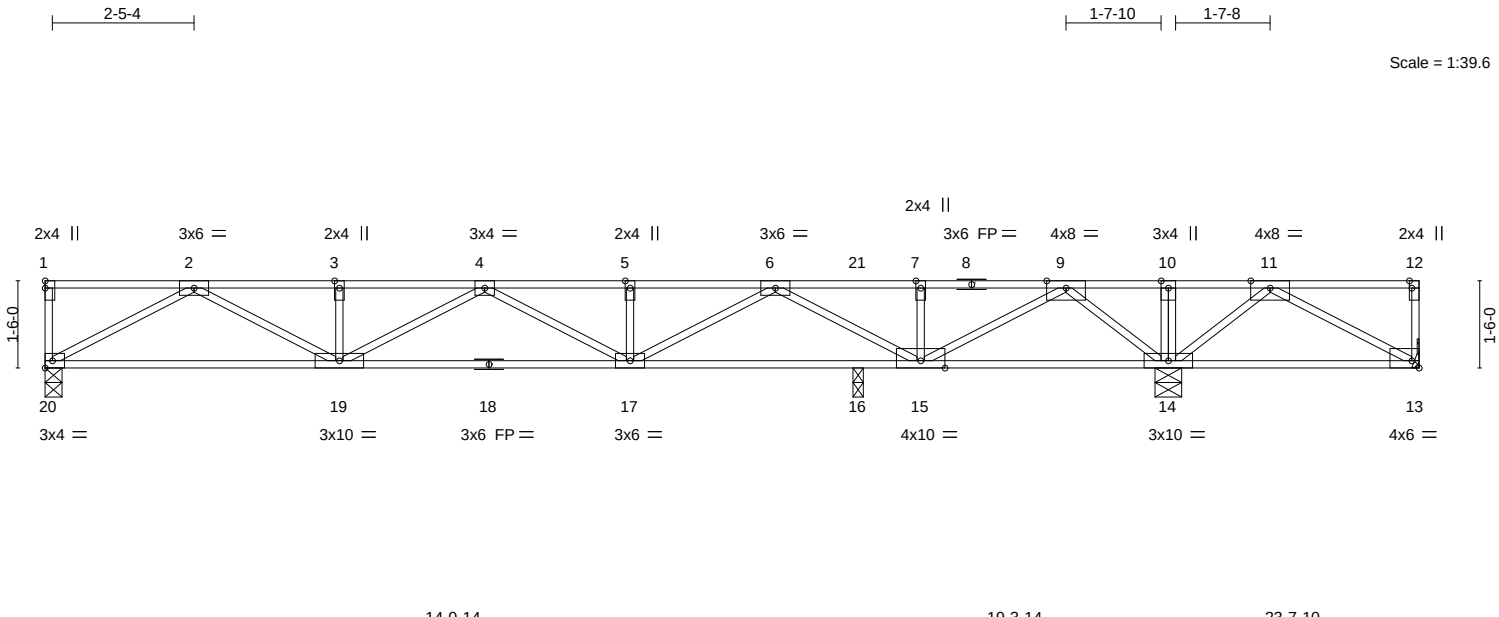


Plate Offsets (X,Y)-- [12:0-1-8,Edge], [13:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.13	17-19	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.27	17-19	>626	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.04	16	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 13=Mechanical, 20=0-3-8, 14=0-5-8, 16=0-2-2
Max Uplift 13=-554(LC 3)
Max Grav 20=761(LC 3), 14=1831(LC 1), 16=209(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1913/0, 3-4=-1913/0, 4-5=-1917/0, 5-6=-1917/0, 6-7=-287/0, 7-9=-287/0, 9-10=0/1988, 10-11=0/1988
BOT CHORD 19-20=0/1180, 17-19=0/2114, 16-17=0/1292, 15-16=0/1292, 14-15=-936/0, 13-14=-1098/0
WEBS 2-20=-1346/0, 2-19=0/837, 4-17=-258/0, 6-17=0/758, 6-15=-1196/0, 9-15=0/1342, 9-14=-1361/0, 11-13=0/1253, 11-14=-1252/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=554.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F28G	FLOOR SPECIAL	4	1	I50440373
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:28 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-Sapobxa1wtz1YCzrZp_DrdPpB7XuOnDXZKh1__zhuF9

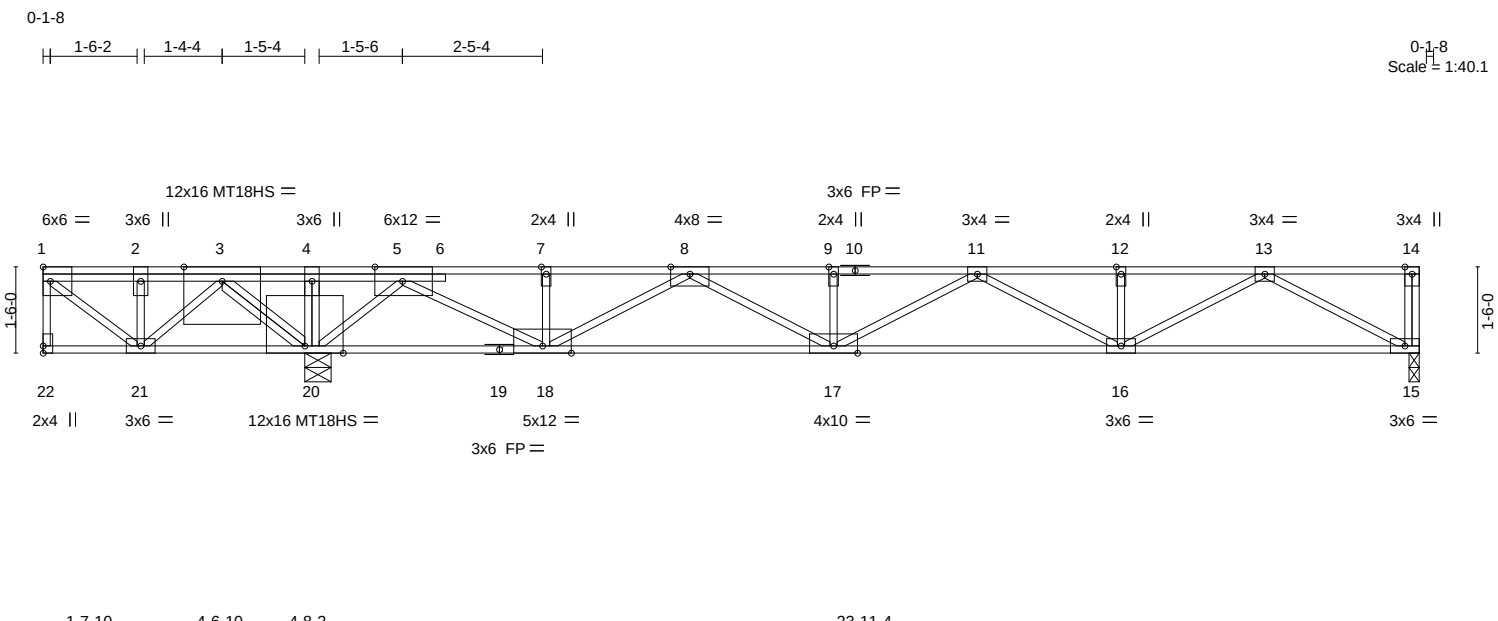


Plate Offsets (X,Y)-- [5:0-5-12,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.16	16-17	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	0.15	17	>999	360	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	-0.05	15	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 107 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E(flat) *Except* 10-14: 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 15=0-2-2, 20=0-5-8
Max Uplift 15=-4(LC 3)
Max Grav 15=536(LC 4), 20=6868(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=0/6455, 4-5=0/6455, 5-7=0/3841, 7-8=0/3841, 8-9=-293/1708, 9-11=-293/1708, 11-12=-1093/411, 12-13=-1093/411
BOT CHORD 20-21=-420/0, 18-20=-5379/0, 17-18=-2707/0, 16-17=-984/892, 15-16=-120/783
WEBS 13-15=-889/136, 13-16=-332/354, 11-16=0/654, 11-17=-826/0, 8-17=0/1330, 8-18=-1771/0, 5-18=0/2470, 5-20=-2095/0, 3-21=0/458, 3-20=-8001/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) The Fabrication Tolerance at joint 20 = 7%
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5000 lb down at 3-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-14=-87
Concentrated Loads (lb)
Vert: 3=-5000(F)

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F28G	FLOOR SPECIAL	4	1	I50440373 Job Reference (optional)

LOAD CASE(S) Standard

2) Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-22=-13, 1-14=-87
   Concentrated Loads (lb)
   Vert: 3=-5000(F)
3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-22=-13, 1-4=-87, 4-14=-33
   Concentrated Loads (lb)
   Vert: 3=-5000(F)
4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-22=-13, 1-4=-33, 4-14=-87
   Concentrated Loads (lb)
   Vert: 3=-5000(F)
5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-22=-13, 1-4=-87, 4-14=-33
   Concentrated Loads (lb)
   Vert: 3=-5000(F)
6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-22=-13, 1-4=-33, 4-14=-87
   Concentrated Loads (lb)
   Vert: 3=-5000(F)

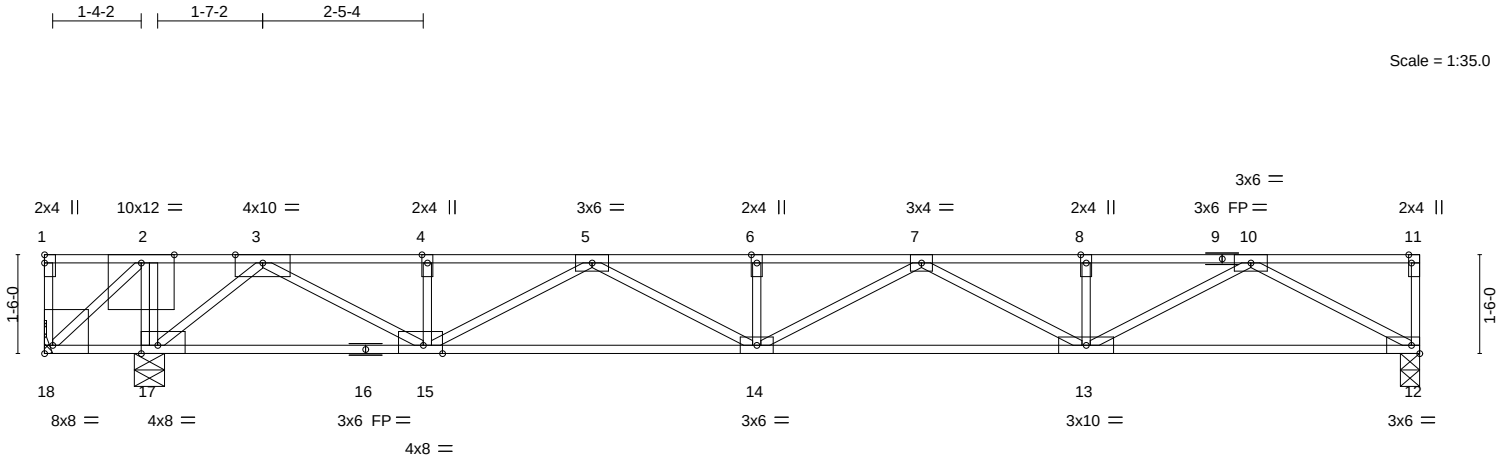
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F29	Floor	24	1	I50440374
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:29 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-wnMBoHbfhB5uALY17WVSOryyUWwN7BBgo_RaWRzhuF8



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

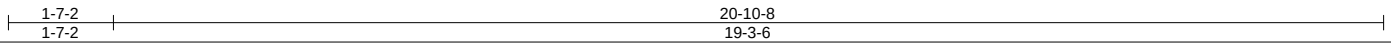


Plate Offsets (X,Y)-- [11:0-1-8,Edge], [15:0-3-8,Edge], [17:0-3-0,Edge], [18:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.12	13-14	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.24	13-14	>968	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 84 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 12=0-3-8, 18=Mechanical, 17=0-5-8
Max Uplift 18=-1996(LC 4)
Max Grav 12=799(LC 4), 17=3231(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/2223, 3-4=-584/0, 4-5=-584/0, 5-6=-2220/0, 6-7=-2220/0, 7-8=-2045/0, 8-10=-2045/0
BOT CHORD 17-18=-2223/0, 15-17=-943/0, 14-15=0/1598, 13-14=0/2332, 12-13=0/1246
WEBS 2-17=-2155/0, 2-18=0/2987, 10-12=-1421/0, 10-13=0/912, 7-13=-327/0, 5-14=0/709, 5-15=-1158/0, 3-15=0/1742, 3-17=-1641/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=1996.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F29G	Floor Girder	4	1	I50440375
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:30 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-OzwZ0cbHSUDlnV7EhD0hx2V37wG9sd4q0eA83tzhuF7

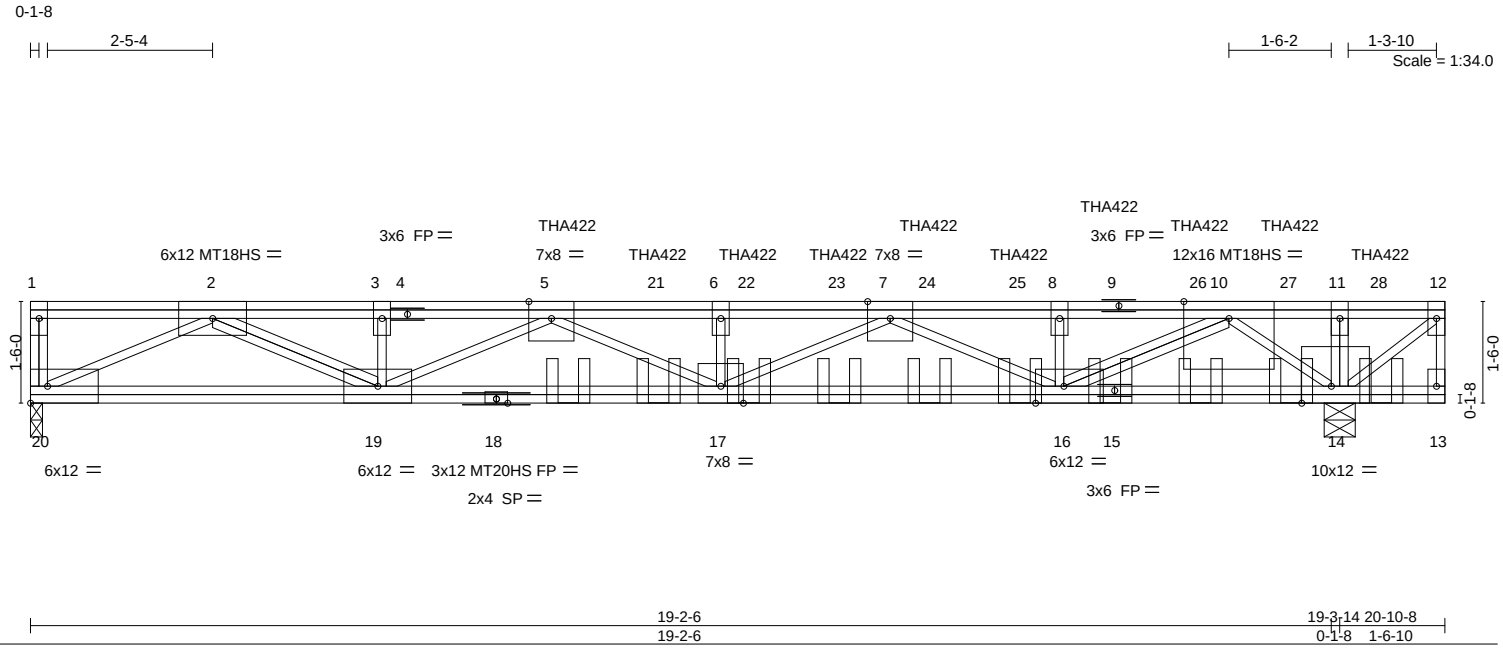


Plate Offsets (X,Y)-- [14:0-5-4,Edge], [16:0-5-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	1.00	Vert(LL)	-0.29	17	>790	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.56	17	>412	360	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.07	14	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 139 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat) *Except*
15-20: 2x4 DF 2400F 2.0E(flat), 13-15: 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=0-2-2, 14=0-5-8
Max Grav 20=2188(LC 3), 14=3633(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-7145/0, 3-5=-7165/0, 5-6=-10700/0, 6-7=-10700/0, 7-8=-7542/0, 8-10=-7488/0
BOT CHORD 19-20=0/4297, 17-19=0/9676, 16-17=0/9977, 14-16=0/3659
WEBS 11-14=-731/0, 2-20=-4694/0, 2-19=0/3232, 3-19=-309/0, 5-19=-2789/0, 5-17=0/1189, 6-17=-788/0, 7-17=0/817, 7-16=-2712/0, 8-16=-818/0, 10-16=0/4363, 10-14=-4605/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x6 MT20 unless otherwise indicated.
4) The Fabrication Tolerance at joint 18 = 11%
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.
9) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 1-4-0 oc max. starting at 7-11-4 from the left end to 19-11-4 to connect truss(es) to back face of top chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-20=-20, 1-12=-130
Concentrated Loads (lb)
Vert: 9=-260(B) 5=-295(B) 21=-260(B) 22=-260(B) 23=-260(B) 24=-260(B) 25=-260(B) 26=-260(B) 27=-260(B) 28=-345(B)

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

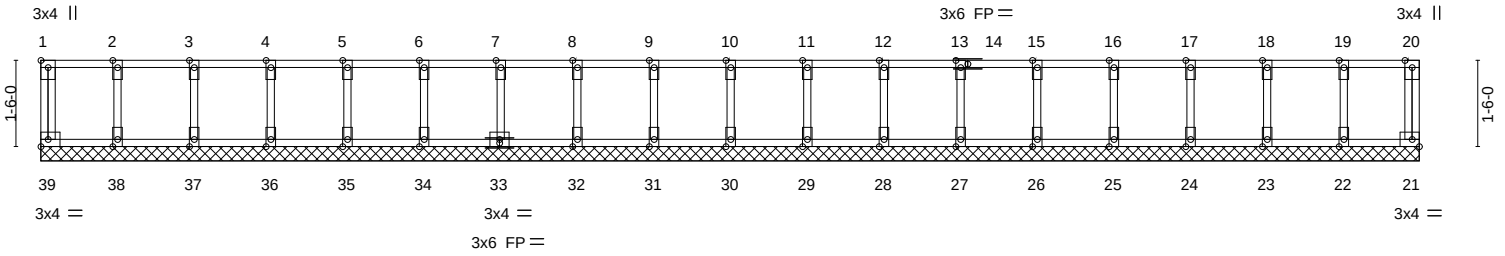
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	L11	Floor Supported Gable	4	1	I50440376
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:31 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-s9UxDycvDoLcPfiQFxXwTG1SQKnCbIXzFIwhbJzhuF6

0-1-8 0-1-8

Scale = 1:40.1



23-11-12
23-11-12

Plate Offsets (X,Y)-- [1:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	21	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 85 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 23-11-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 39, 21, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 2x4 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

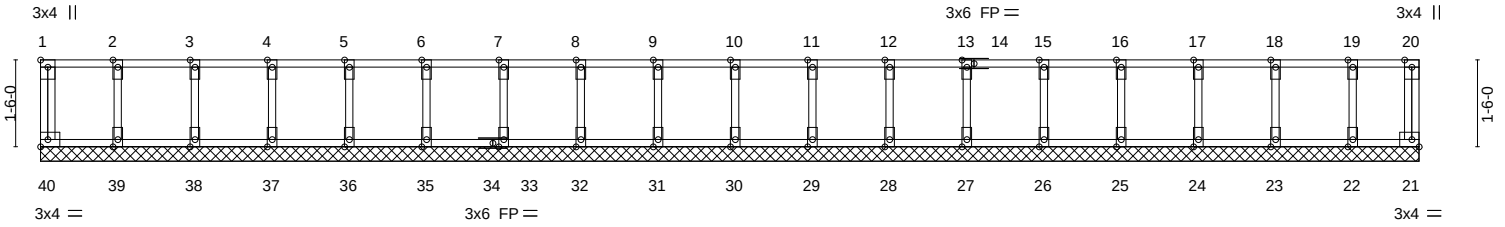
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	L21	Floor Supported Gable	4	1	I50440377
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:32 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-LL2JQIdX_6TT1pHcoe290Tad9k6TKlm6UyfF7IzhuF5

0-1-8 0-1-8

Scale = 1:39.8



23-9-12
23-9-12

Plate Offsets (X,Y)-- [1:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	21	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 84 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SPF No.2(flat)
BOT CHORD	2x4 SPF No.2(flat)
WEBS	2x4 SPF No.2(flat)
OTHERS	2x4 SPF No.2(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 23-9-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 39, 38, 37, 36, 35, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 2x4 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

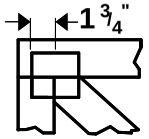
February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

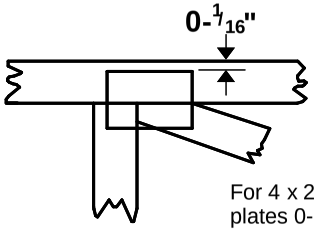
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

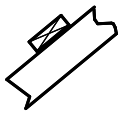
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

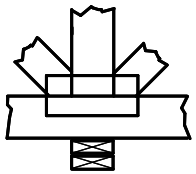
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

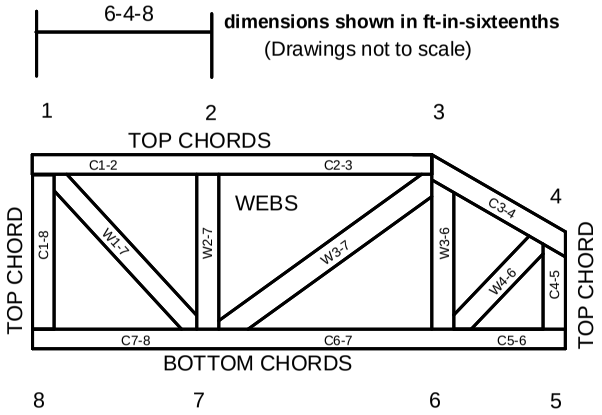


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

© 2012 MiTek® All Rights Reserved

MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 2

RE: J220197-G02R - Brinkmann Constructors

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Site Information:

Project Customer: Valued customer Project Name: BRINKMANN CONSTRUCTORS

Lot/Block: Subdivision:

Model:

Address: 2100 NW Lowenstein Dr

City: Lee Summit State: Mo

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IBC2018/TPI2014

Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-16 Wind Speed: 115 mph

Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

Roof Load: 40.0 ~~psf~~ 45psf

Floor Load: N/A psf

Mean Roof Height (feet): 25

Exposure Category: C

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I50440380	A01	2/25/22	35	I50440414	B10	2/25/22
2	I50440381	A02	2/25/22	36	I50440415	B11	2/25/22
3	I50440382	A03	2/25/22	37	I50440416	B12	2/25/22
4	I50440383	A04	2/25/22	38	I50440417	B13	2/25/22
5	I50440384	A05	2/25/22	39	I50440418	B14	2/25/22
6	I50440385	A06	2/25/22	40	I50440419	B15	2/25/22
7	I50440386	A07	2/25/22	41	I50440420	B16	2/25/22
8	I50440387	A08	2/25/22	42	I50440421	B17	2/25/22
9	I50440388	A09	2/25/22	43	I50440422	B18	2/25/22
10	I50440389	A10	2/25/22	44	I50440423	B19	2/25/22
11	I50440390	A11	2/25/22	45	I50440424	B20	2/25/22
12	I50440391	A12	2/25/22	46	I50440425	B21	2/25/22
13	I50440392	A13	2/25/22	47	I50440426	B22	2/25/22
14	I50440393	A14	2/25/22	48	I50440427	B23	2/25/22
15	I50440394	A15	2/25/22	49	I50440428	B24	2/25/22
16	I50440395	A16	2/25/22	50	I50440429	B25	2/25/22
17	I50440396	A17	2/25/22	51	I50440430	B26	2/25/22
18	I50440397	A18	2/25/22	52	I50440431	B27	2/25/22
19	I50440398	A19	2/25/22	53	I50440432	B28	2/25/22
20	I50440399	A20	2/25/22	54	I50440433	B29	2/25/22
21	I50440400	A21	2/25/22	55	I50440434	B30	2/25/22
22	I50440401	A22	2/25/22	56	I50440435	B31	2/25/22
23	I50440402	A23	2/25/22	57	I50440436	B32	2/25/22
24	I50440403	A24	2/25/22	58	I50440437	B33	2/25/22
25	I50440404	A25	2/25/22	59	I50440438	B34	2/25/22
26	I50440405	B01	2/25/22	60	I50440439	B35	2/25/22
27	I50440406	B02	2/25/22	61	I50440440	B36	2/25/22
28	I50440407	B03	2/25/22	62	I50440441	B37	2/25/22
29	I50440408	B04	2/25/22	63	I50440442	B38	2/25/22
30	I50440409	B05	2/25/22	64	I50440443	J01	2/25/22
31	I50440410	B06	2/25/22	65	I50440444	T01	2/25/22
32	I50440411	B07	2/25/22	66	I50440445	T02	2/25/22
33	I50440412	B08	2/25/22	67	I50440446	T03	2/25/22
34	I50440413	B09	2/25/22	68	I50440447	T04	2/25/22

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 03/08/2022 BY: MJF

REVIEWED ☐ DATE RECIEVED:

REVIEWED AS NOTED ☑ DATE REVIEWED: 3/14/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mill Creek Truss, LLC.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2023.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

February 25,2022

Sevier, Scott

RE: J220197-G02R - Brinkmann Constructors

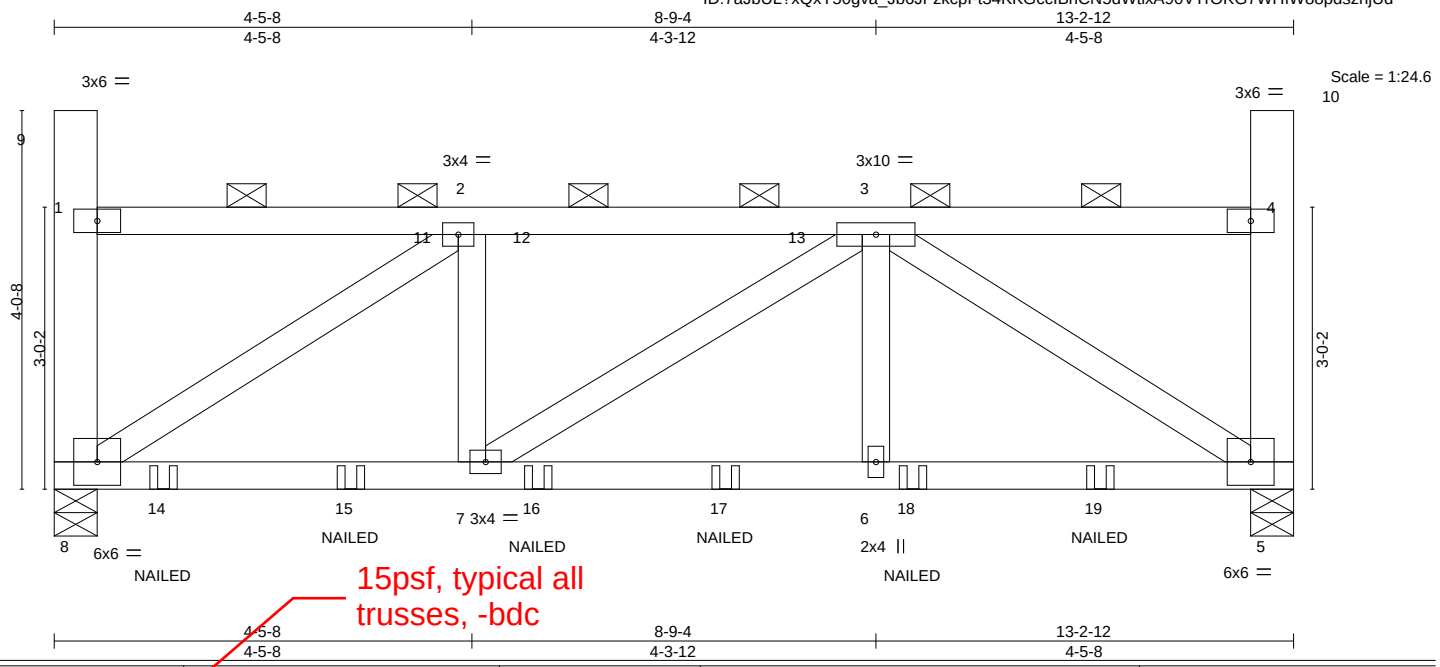
MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

No.	Seal#	Truss Name	Date
69	I50440448	T05	2/25/22
70	I50440449	T10	2/25/22
71	I50440450	T47	2/25/22
72	I50440451	T48	2/25/22
73	I50440452	TGE01	2/25/22
74	I50440453	TGE02	2/25/22
75	I50440454	TGE03	2/25/22
76	I50440455	TGE04	2/25/22
77	I50440456	TGE05	2/25/22
78	I50440457	TGE06	2/25/22
79	I50440458	TGE07	2/25/22
80	I50440459	TGE08	2/25/22
81	I50440460	TGE09	2/25/22
82	I50440461	TGE10	2/25/22
83	I50440462	TGE11	2/25/22
84	I50440463	TGE12	2/25/22
85	I50440464	TGE13	2/25/22
86	I50440465	TGE14	2/25/22
87	I50440466	TGE15	2/25/22
88	I50440467	TGE16	2/25/22
89	I50440468	TGE17	2/25/22
90	I50440469	TGE18	2/25/22
91	I50440470	TGE19	2/25/22
92	I50440471	TGE20	2/25/22
93	I50440472	TGE21	2/25/22
94	I50440473	TGE22	2/25/22
95	I50440474	TGE23	2/25/22

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	A01	FLAT GIRDER	3	1	I50440380
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:28:54 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-t34KKGccIBhCN5dWtixA90VTrOKG7WHfW88pdszhjUd



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.05	6-7	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.05	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 64 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
8-9,5-10: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-9, 1-4, 4-10, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-3-1 oc bracing.

REACTIONS. (lb/size) 8=820/0-5-8, 5=781/0-5-8
Max Horz 8=-180(LC 10)
Max Uplift 8=-443(LC 10), 5=-334(LC 11)
Max Grav 8=835(LC 29), 5=798(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-922/517, 12-13=-922/517, 3-13=-922/517
BOT CHORD 8-14=-663/922, 14-15=-663/922, 7-15=-663/922, 7-16=-579/919, 16-17=-579/919, 6-17=-579/919, 6-18=-579/919, 18-19=-579/919, 5-19=-579/919
WEBS 2-8=-1042/627, 2-7=-243/291, 3-6=-175/290, 3-5=-1042/646

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 443 lb uplift at joint 8 and 334 lb uplift at joint 5.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	A01	FLAT GIRDER	3	1	I50440380
					Job Reference (optional)

LOAD CASE(S) Standard Except:

Uniform Loads (plf)
Vert: 3-11=-58, 5-8=-20
Concentrated Loads (lb)
Vert: 14=-92(F) 15=-92(F) 16=-92(F) 17=-92(F) 18=-92(F) 19=-92(F)
Trapezoidal Loads (plf)
Vert: 1=-73-to-11=-58, 3=-57-to-4=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-8=-20
Concentrated Loads (lb)
Vert: 14=-78(F) 15=-78(F) 16=-78(F) 17=-78(F) 18=-78(F) 19=-81(F)
Trapezoidal Loads (plf)
Vert: 1=-60-to-12=-53, 12=-53-to-13=-52, 13=-52-to-4=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=18, 1-9=37, 4-5=5, 4-10=25
Concentrated Loads (lb)
Vert: 14=73(F) 15=74(F) 16=74(F) 17=74(F) 18=74(F) 19=-130(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-12=-40, 12=-40-to-13=-40, 13=-40-to-4=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=-5, 1-9=-25, 4-5=-18, 4-10=-37
Concentrated Loads (lb)
Vert: 14=73(F) 15=74(F) 16=74(F) 17=74(F) 18=74(F) 19=-86(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-12=-40, 12=-40-to-13=-40, 13=-40-to-4=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=14, 1-9=-25, 4-5=3, 4-10=25
Concentrated Loads (lb)
Vert: 14=73(F) 15=74(F) 16=74(F) 17=74(F) 18=74(F) 19=-115(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-12=-40, 12=-40-to-13=-40, 13=-40-to-4=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=-3, 1-9=-25, 4-5=-14, 4-10=25
Concentrated Loads (lb)
Vert: 14=73(F) 15=74(F) 16=74(F) 17=74(F) 18=74(F) 19=-115(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-12=-40, 12=-40-to-13=-40, 13=-40-to-4=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-11=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 14=-92(F) 15=-92(F) 16=-92(F) 17=-92(F) 18=-92(F) 19=-94(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-11=-60, 3=-59-to-4=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A02	Flat	3	1	I50440381
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:56 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-ezVOTVwbKUV3vV6EChUo_XadUPDkxTge?hTWyMzhuEj

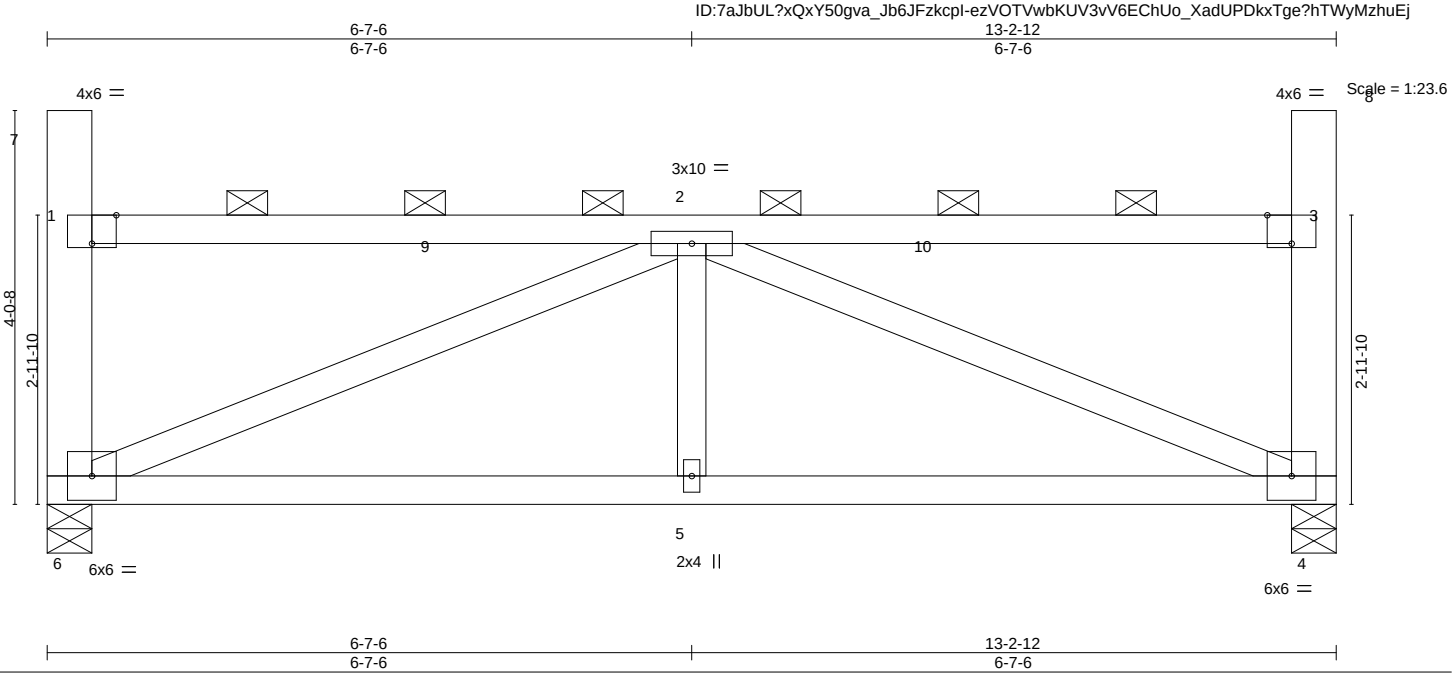


Plate Offsets (X,Y)-- [1:0-3-0,Edge], [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.04	5-6	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.08	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.02	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 60 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
6-7,4-8: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, 3-8, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-5 oc bracing.

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=182(LC 11)
Max Uplift 6=-63(LC 10), 4=-63(LC 11)
Max Grav 6=539(LC 29), 4=540(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 5-6=-707/743, 4-5=-707/743
WEBS 2-6=-743/722, 2-5=0/284, 2-4=-743/719

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-58, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-9=-58, 10=-58-to-3=-73

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A02	Flat	3	1	I50440381 Job Reference (optional)

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 9-10=-48, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-60-to-9=-48, 10=-48-to-3=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-36, 4-6=-20
      Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-36, 4-6=-20
      Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-36, 4-6=-20
      Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-36, 4-6=-20
      Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 9-10=-60, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-75-to-9=-60, 10=-60-to-3=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A03	Flat	3	1	I50440382
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:57 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-693mgrwD5ndwXfhQmO?1Xl6oDpZxgwroELD3VpzhuEi

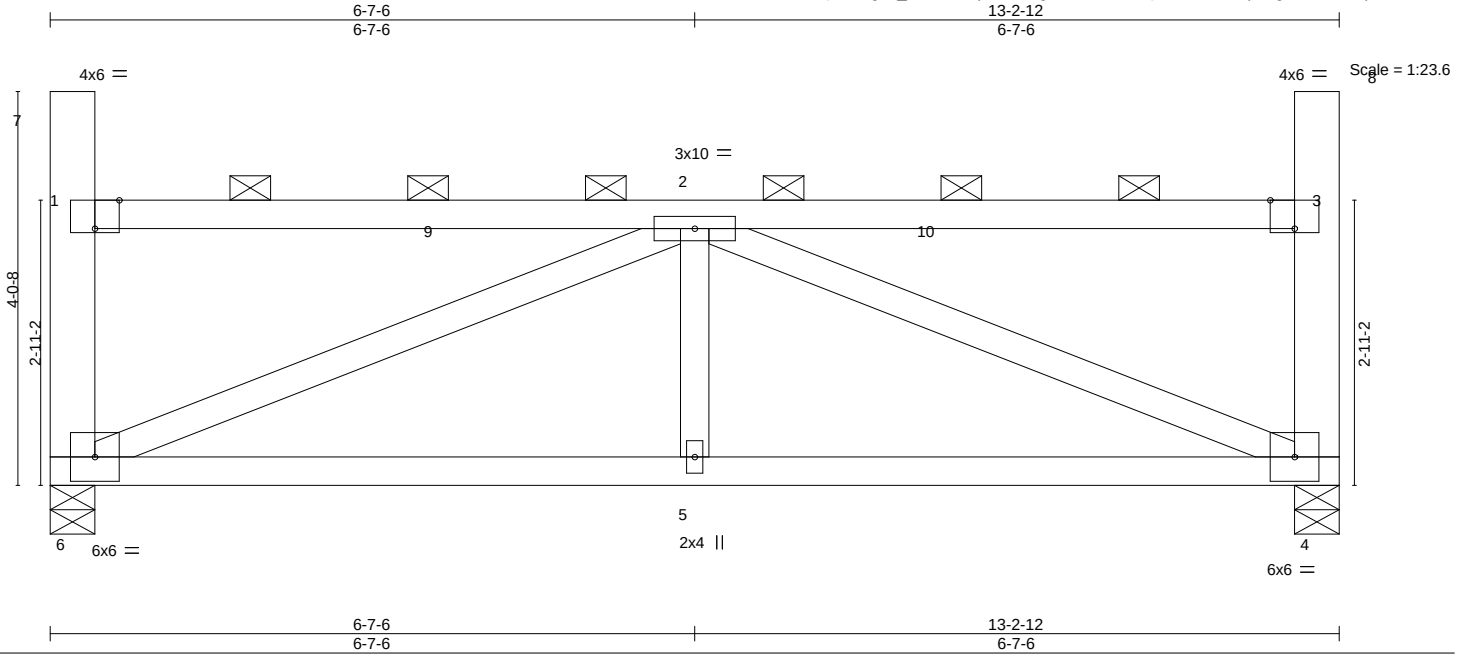


Plate Offsets (X,Y)-- [1:0-3-0,Edge], [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.04	5-6	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.08	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.02	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 60 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
6-7,4-8: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, 3-8, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-11 oc bracing.

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=185(LC 13)
Max Uplift 6=-63(LC 10), 4=-63(LC 11)
Max Grav 6=539(LC 29), 4=540(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 5-6=-717/754, 4-5=-717/754
WEBS 2-6=-752/734, 2-5=0/284, 2-4=-752/730

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-58, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-9=-58, 10=-58-to-3=-73

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A03	Flat	3	1	I50440382 Job Reference (optional)

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 9-10=-48, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-60-to-9=-48, 10=-48-to-3=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-36, 4-6=-20
      Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-36, 4-6=-20
      Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-36, 4-6=-20
      Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-36, 4-6=-20
      Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 9-10=-60, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-75-to-9=-60, 10=-60-to-3=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A04	Flat Structural Gable	1	1	I50440383
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:58 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-aMd8uBxrs5lm8pGcK6WG3yfzzCu9PN?xS?yd1FzhuEh

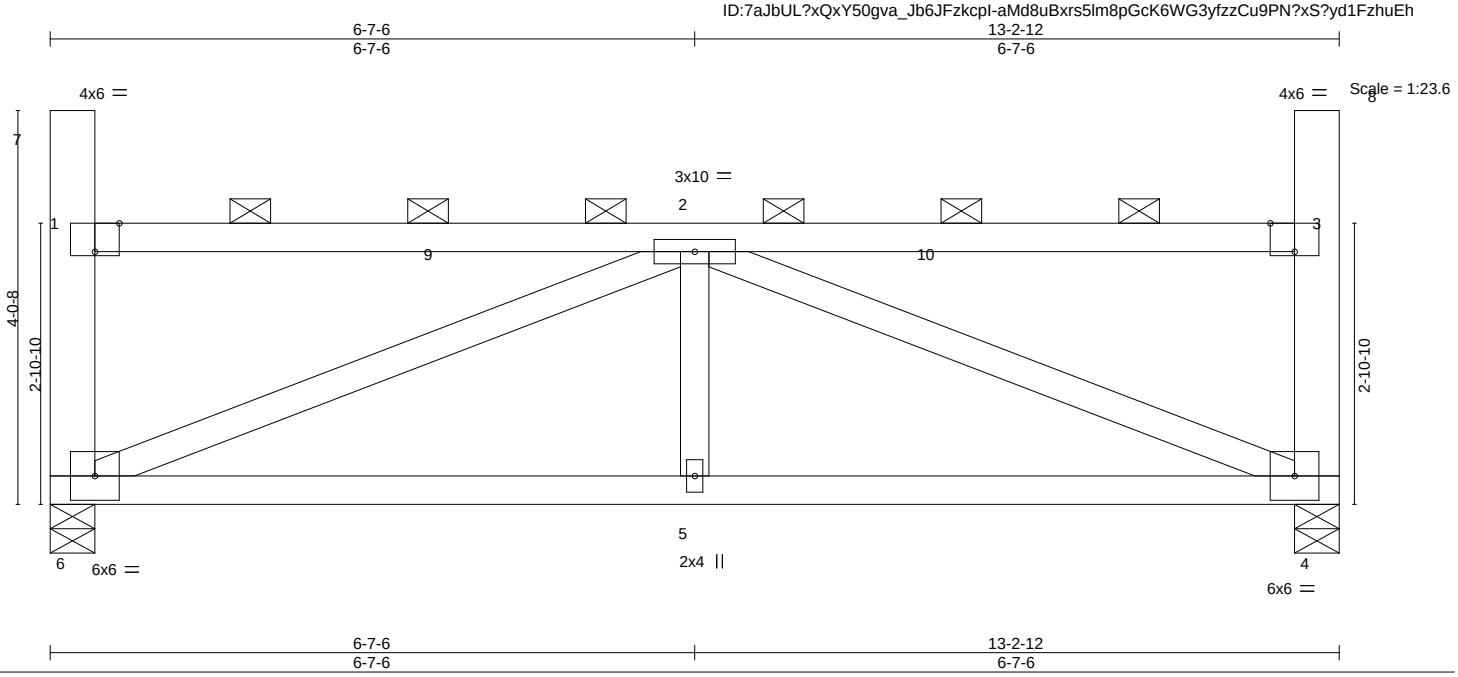


Plate Offsets (X,Y)-- [1:0-3-0,Edge], [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.04	5-6	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.08	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.02	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 60 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
6-7,4-8: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, 3-8, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-1 oc bracing.

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=-187(LC 10)
Max Uplift 6=-64(LC 10), 4=-64(LC 11)
Max Grav 6=539(LC 29), 4=540(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 5-6=-727/766, 4-5=-727/766
WEBS 2-6=-762/746, 2-5=0/284, 2-4=-762/742

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) Provide adequate drainage to prevent water ponding.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A04	Flat Structural Gable	1	1	I50440383 Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 9-10=-58, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-9=-58, 10=-58-to-3=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-48, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-9=-48, 10=-48-to-3=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36, 10=-36-to-3=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36, 10=-36-to-3=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36, 10=-36-to-3=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36, 10=-36-to-3=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-60, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-60, 10=-60-to-3=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

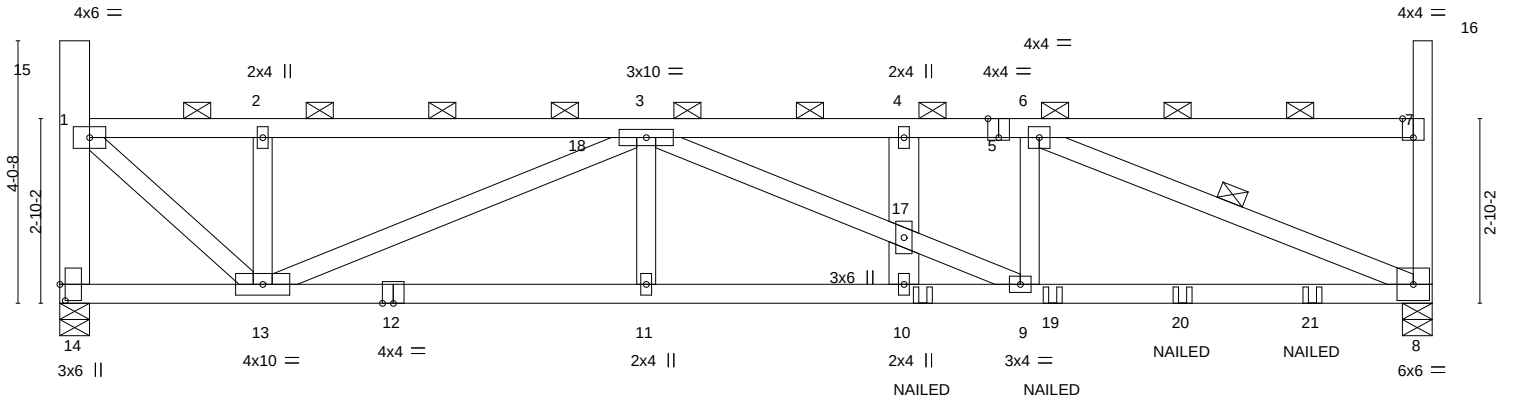
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	A05	FLAT GIRDER	3	1	I50440384
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:32:34 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-RONVVVHcUnP_muRolvum4Pc054KtgxI16MQSL6zhjRB

3-1-8	9-0-6	13-0-0	14-11-4	21-1-10
3-1-8	5-10-14	3-11-10	1-11-4	6-2-6

Scale = 1:35.5



3-1-8	9-0-6	13-0-0	14-11-4	21-1-10
3-1-8	5-10-14	3-11-10	1-11-4	6-2-6

Plate Offsets (X,Y)-- [5:0-2-0,Edge], [7:0-2-0,Edge], [14:0-3-0,0-1-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.17	8-9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.19	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.06	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 95 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except* 14-15,4-17,10-17: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD	2-0-0 oc purlins (3-11-6 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-5-2 oc bracing.
WEBS	1 Row at midpt 6-8

REACTIONS. (lb/size) 14=917/0-5-8, 8=1038/0-5-8
Max Horz 14=-189(LC 12)
Max Uplift 14=-217(LC 10), 8=-474(LC 11)
Max Grav 14=941(LC 29), 8=1063(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-921/521, 1-2=-989/601, 2-18=-989/601, 3-18=-989/601, 3-4=-1832/950, 4-5=-1832/950, 5-6=-1832/950
BOT CHORD	13-14=-315/337, 12-13=-1173/1966, 11-12=-1173/1966, 10-11=-1173/1966, 9-10=-1173/1966, 9-19=-952/1832, 19-20=-952/1832, 20-21=-952/1832, 8-21=-952/1832
WEBS	1-13=-725/1305, 2-13=-344/299, 3-13=-1064/634, 3-17=-418/238, 9-17=-415/246, 6-9=-282/377, 6-8=-1903/994

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 14 and 474 lb uplift at joint 8.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 4-18=-58, 8-14=-20
   Concentrated Loads (lb)
      Vert: 10=-56(F) 19=-56(F) 20=-56(F) 21=-56(F)
   Trapezoidal Loads (plf)
      Vert: 1=-73-to-18=-58, 4=-57-to-7=-73
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 4-18=-48, 8-14=-20
   Concentrated Loads (lb)
      Vert: 10=-47(F) 19=-47(F) 20=-47(F) 21=-49(F)
   Trapezoidal Loads (plf)
      Vert: 1=-60-to-18=-48, 4=-48-to-7=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 4-18=-36, 8-14=-20
      Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
   Concentrated Loads (lb)
      Vert: 10=124(F) 19=124(F) 20=124(F) 21=-79(F)
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 4-18=-36, 8-14=-20
      Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
   Concentrated Loads (lb)
      Vert: 10=124(F) 19=124(F) 20=124(F) 21=-52(F)
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 4-18=-36, 8-14=-20
      Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
   Concentrated Loads (lb)
      Vert: 10=124(F) 19=124(F) 20=124(F) 21=-70(F)
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 4-18=-36, 8-14=-20
      Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
   Concentrated Loads (lb)
      Vert: 10=124(F) 19=124(F) 20=124(F) 21=-70(F)
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 4-18=-60, 8-14=-20
   Concentrated Loads (lb)
      Vert: 10=-56(F) 19=-56(F) 20=-56(F) 21=-58(F)
   Trapezoidal Loads (plf)
      Vert: 1=-75-to-18=-60, 4=-60-to-7=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A06	Flat	3	1	I50440385
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:01 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-_xIHWDzk907L?G?B?E3zhbHUuQubciqO9zBHeazhuEe

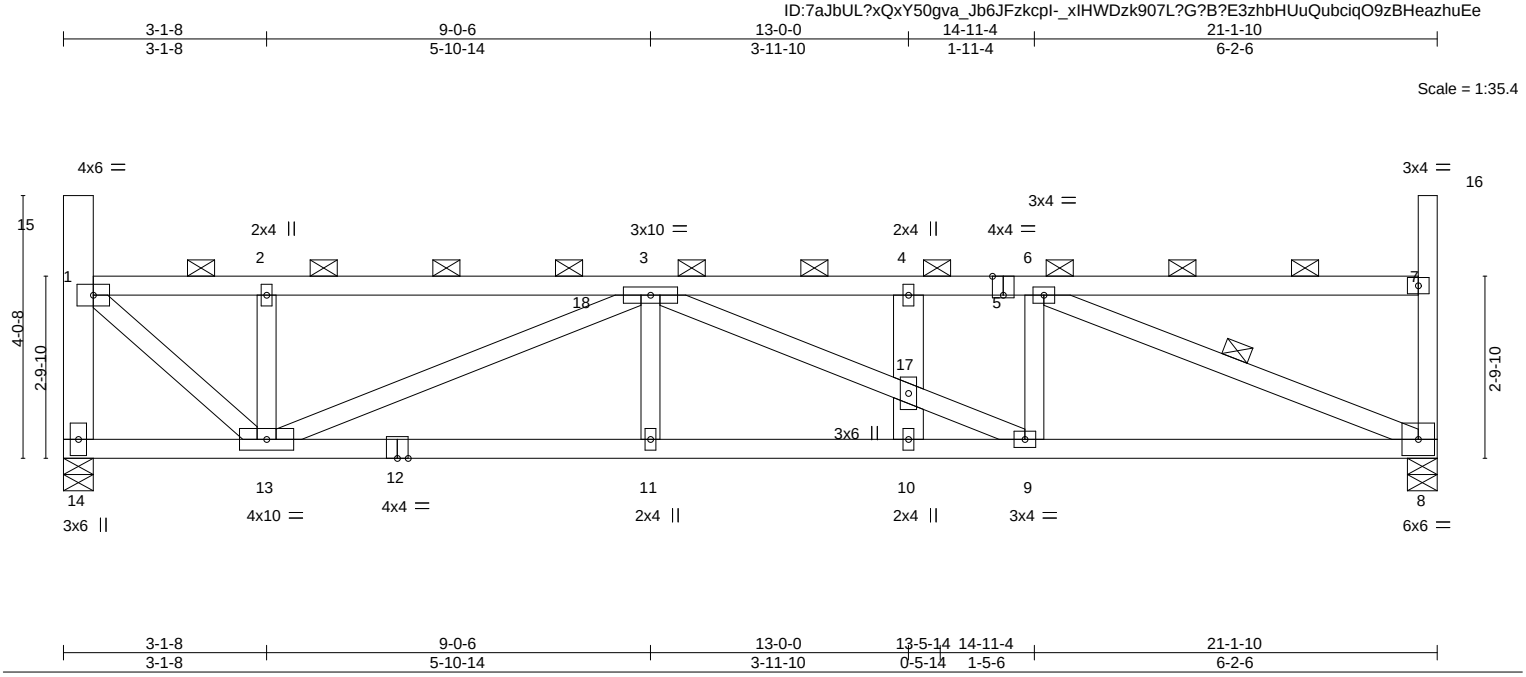


Plate Offsets (X,Y)-- [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.11	10-11	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.17	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 94 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
14-15,10-17,4-17: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (4-3-2 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-6 oc bracing.
WEBS 1 Row at midpt 6-8

REACTIONS. (size) 14=0-5-8, 8=0-5-8
Max Horz 14=-191(LC 10)
Max Uplift 14=-68(LC 10), 8=-68(LC 11)
Max Grav 14=889(LC 29), 8=889(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-870/519, 1-2=-946/608, 2-3=-946/608, 3-4=-1572/909, 4-6=-1572/909
BOT CHORD 13-14=-321/344, 11-13=-1183/1816, 10-11=-1183/1816, 9-10=-1183/1816, 8-9=-945/1572
WEBS 1-13=-728/1240, 2-13=-344/298, 3-13=-945/638, 3-17=-267/255, 9-17=-279/264, 6-9=-47/332, 6-8=-1634/992

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-58, 8-14=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A06	Flat	3	1	I50440385 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-18=-58, 4=-57-to-7=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-48, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-18=-48, 4=-48-to-7=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-18=-60, 4=-60-to-7=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A07	Flat	3	1	I50440386
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:02 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-S7sfjZ_MwKFCdQZNZybCEopebqEiL9_XNdwqA0zhuEd

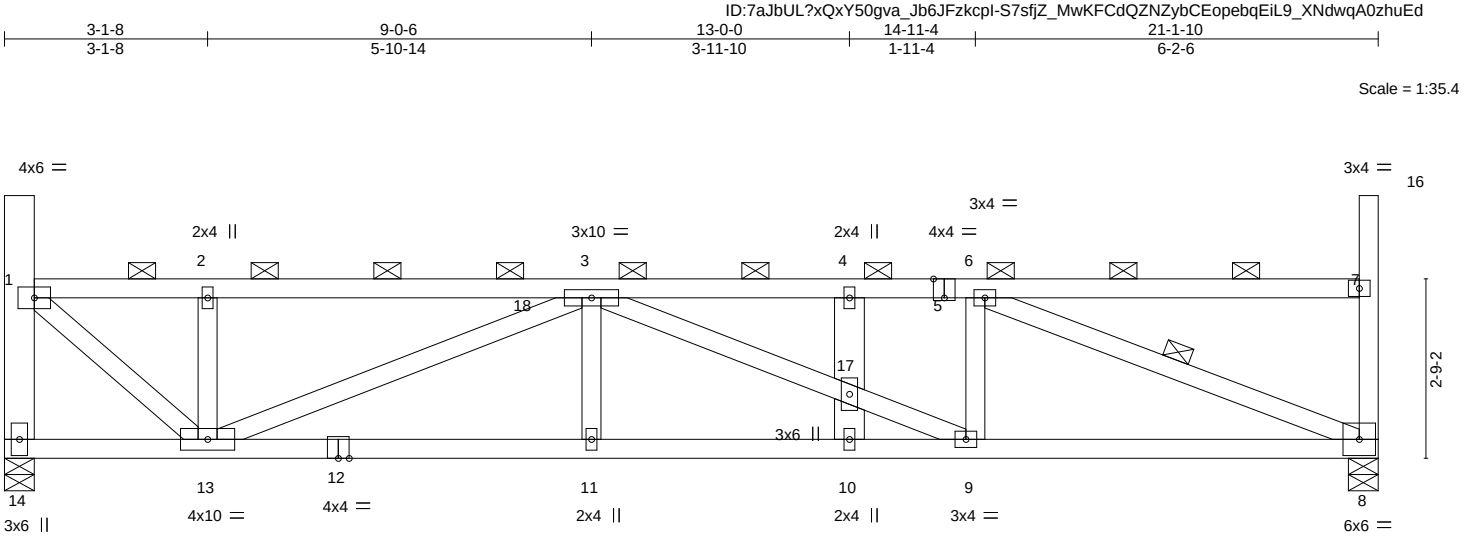


Plate Offsets (X,Y)-- [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.11	10-11	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.18	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 94 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
14-15,4-17,10-17: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (4-2-12 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-3-14 oc bracing.
WEBS 1 Row at midpt 6-8

REACTIONS. (size) 14=0-5-8, 8=0-5-8
Max Horz 14=193(LC 11)
Max Uplift 14=-68(LC 10), 8=-68(LC 11)
Max Grav 14=889(LC 29), 8=889(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-870/520, 1-2=-962/619, 2-3=-962/619, 3-4=-1598/923, 4-6=-1598/923
BOT CHORD 13-14=-327/350, 11-13=-1202/1846, 10-11=-1202/1846, 9-10=-1202/1846, 8-9=-959/1598
WEBS 1-13=-735/1252, 2-13=-344/299, 3-13=-958/648, 3-17=-271/260, 9-17=-284/269, 6-9=-48/332, 6-8=-1656/1006

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-58, 8-14=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A07	Flat	3	1	I50440386 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-18=-58, 4=-57-to-7=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-48, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-18=-48, 4=-48-to-7=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-18=-60, 4=-60-to-7=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

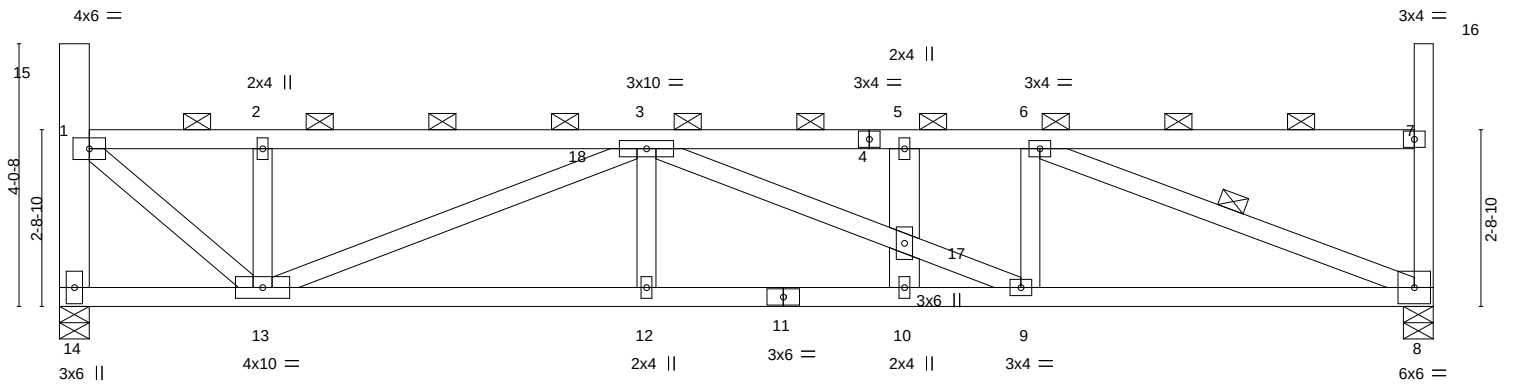
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A08	Flat	3	1	I50440387
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:03 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-xJQ1xv?_gdN3Fa8a7f6Rm0MpJDZp4c8gcHgOiSzhuEc

3-1-8	7-1-2	9-0-6	13-0-0	14-0-8	14-11-4	21-1-10
3-1-8	3-11-10	1-11-4	3-11-10	1-0-8	0-10-12	6-2-6

Scale = 1:35.4



3-1-8	7-1-2	9-0-6	13-0-0	14-0-8	14-11-4	21-1-10
3-1-8	3-11-10	1-11-4	3-11-10	1-0-8	0-10-12	6-2-6

LOADING (psf)
TCLL (roof) 20.0
Snow (Pf/Pg) 18.9/20.0
TCDL 10.0
BCLL 0.0 *
BCDL 10.0

SPACING- 2-0-0
Plate Grip DOL 1.15
Lumber DOL 1.15
Rep Stress Incr NO
Code IBC2018/TPI2014

CSI.
TC 0.52
BC 0.58
WB 0.68
Matrix-MS

DEFL.	in	(loc)	l/defl	L/d
Vert(LL)	0.11	10-12	>999	240
Vert(CT)	-0.18	10-12	>999	180
Horz(CT)	0.05	8	n/a	n/a

PLATES MT20 **GRIP** 197/144

Weight: 94 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
14-15,5-17,10-17: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (4-1-15 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-3-6 oc bracing.
WEBS 1 Row at midpt 6-8

REACTIONS. (size) 14=0-5-8, 8=0-5-8
Max Horz 14=-195(LC 10)
Max Uplift 14=-69(LC 10), 8=-69(LC 11)
Max Grav 14=889(LC 29), 8=889(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-870/520, 1-2=-978/630, 2-3=-978/630, 3-5=-1625/939, 5-6=-1625/939
BOT CHORD 13-14=-334/357, 12-13=-1221/1877, 10-12=-1221/1877, 9-10=-1221/1877, 8-9=-973/1625
WEBS 1-13=-743/1264, 2-13=-344/299, 3-13=-972/659, 3-17=-275/266, 9-17=-288/274, 6-9=-49/332, 6-8=-1679/1021

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-18=-58, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-18=-58, 5=-57-to-7=-73

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A08	Flat	3	1	I50440387 Job Reference (optional)

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 5-18=-48, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-60-to-18=-48, 5=-48-to-7=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 5-18=-36, 8-14=-20
      Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-18=-36, 5=-36-to-7=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 5-18=-36, 8-14=-20
      Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-18=-36, 5=-36-to-7=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 5-18=-36, 8-14=-20
      Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-18=-36, 5=-36-to-7=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 5-18=-36, 8-14=-20
      Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-18=-36, 5=-36-to-7=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 5-18=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-75-to-18=-60, 5=-60-to-7=-75

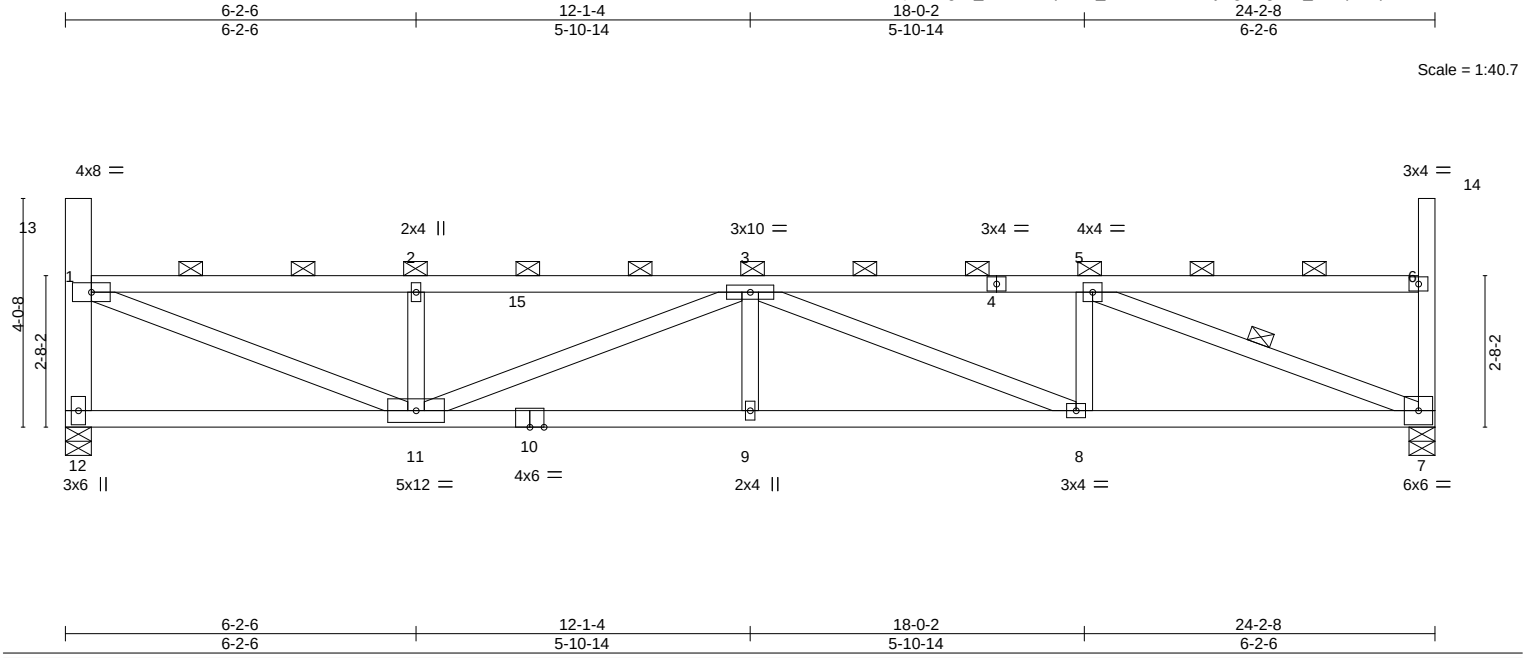
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A09	Flat	3	1	I50440388
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:04 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-PV_P8E0cRxVwskjmgMdgJDv_idsYp27qrxPxFvzhuEb



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.17	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.30	8-9	>961	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 100 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-8-2 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-10 oc bracing.
WEBS 1 Row at midpt 5-7

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-198(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-951/559, 1-2=-1949/1043, 2-3=-1949/1043, 3-5=-1971/1053
BOT CHORD 11-12=-358/321, 9-11=-1434/2517, 8-9=-1434/2517, 7-8=-1058/1971
WEBS 1-11=-1106/2019, 2-11=-402/339, 3-11=-622/418, 3-8=-600/406, 5-8=-69/423, 5-7=-2045/1115

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A09	Flat	3	1	I50440388 Job Reference (optional)

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 4-15=-48, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 4-15=-36, 7-12=-20
      Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 4-15=-36, 7-12=-20
      Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 4-15=-36, 7-12=-20
      Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 4-15=-36, 7-12=-20
      Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 4-15=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

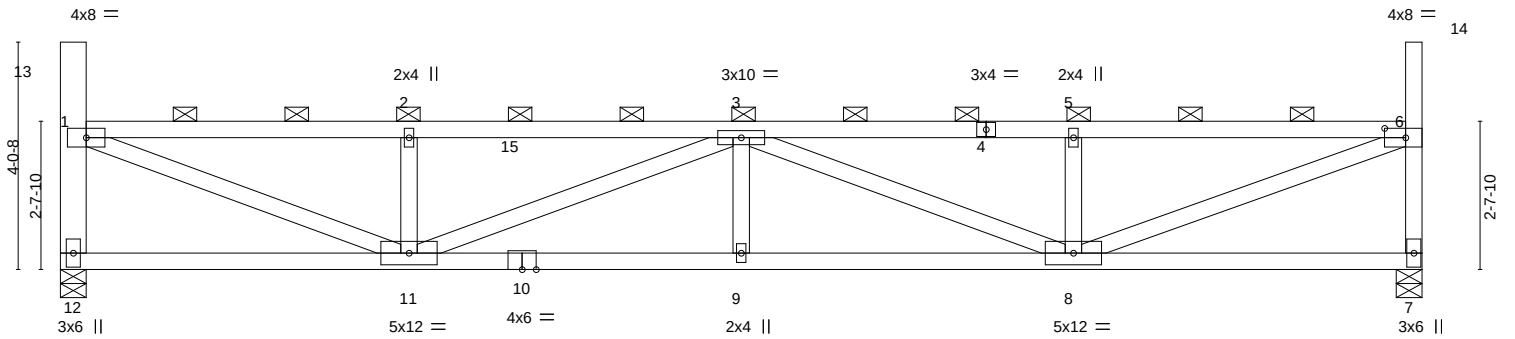
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A10	Flat	3	1	I50440389
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:05 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-tiYoMa1ECFdnUtlyE48vrRR8E1CaYUVz4b9UnLzhuEa

6-2-6	12-1-4	18-0-2	24-2-8
6-2-6	5-10-14	5-10-14	6-2-6

Scale = 1:41.0



6-2-6	12-1-4	18-0-2	24-2-8
6-2-6	5-10-14	5-10-14	6-2-6

Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.17	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.31	8-9	>926	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 100 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-6-3 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-3 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-200(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-950/559, 1-2=-1983/1061, 2-3=-1983/1061, 3-5=-2004/1069, 5-6=-2004/1069, 6-7=-951/560
BOT CHORD 11-12=-365/327, 9-11=-1458/2562, 8-9=-1458/2562
WEBS 1-11=-1123/2049, 2-11=-401/338, 3-11=-632/427, 3-8=-611/412, 5-8=-408/345, 6-8=-1133/2074

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A10	Flat	3	1	I50440389 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A11	Flat	3	1	I50440390
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:06 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-Lu6AZw1szYle61t9onf8Oe_JLRXYHxy7IFu2JnzhuEZ

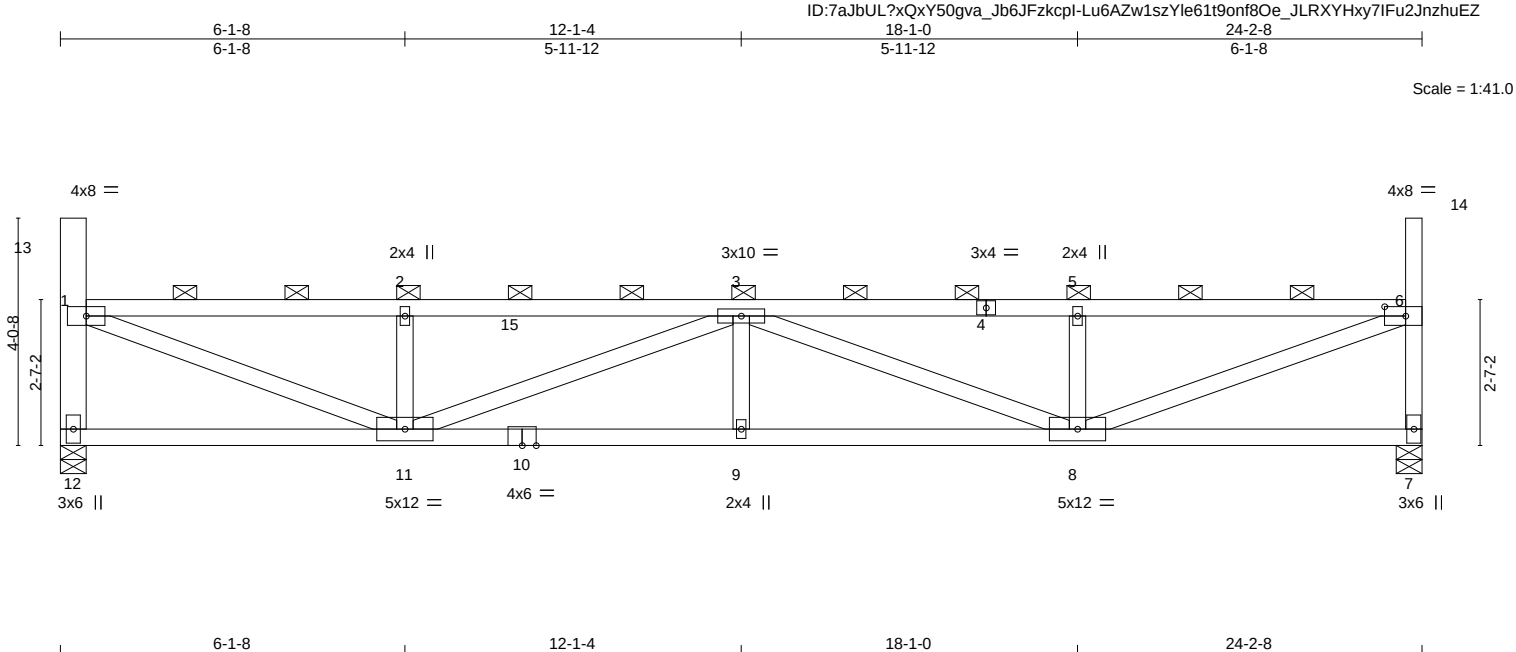


Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.18	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.32	8-9	>898	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 100 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-6-8 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-11 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-202(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-951/559, 1-2=-2003/1073, 2-3=-2003/1073, 3-5=-2024/1082, 5-6=-2024/1082, 6-7=-951/560
BOT CHORD 11-12=-372/334, 9-11=-1484/2612, 8-9=-1484/2612
WEBS 1-11=-1134/2069, 2-11=-401/338, 3-11=-661/445, 3-8=-639/431, 5-8=-407/344, 6-8=-1145/2094

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A11	Flat	3	1	I50440390 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A12	Flat	3	1	I50440391
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:07 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-p4fYnG2UkstVjBSLMVANxsXUyrtZ0O3GXvebrEzhuEY

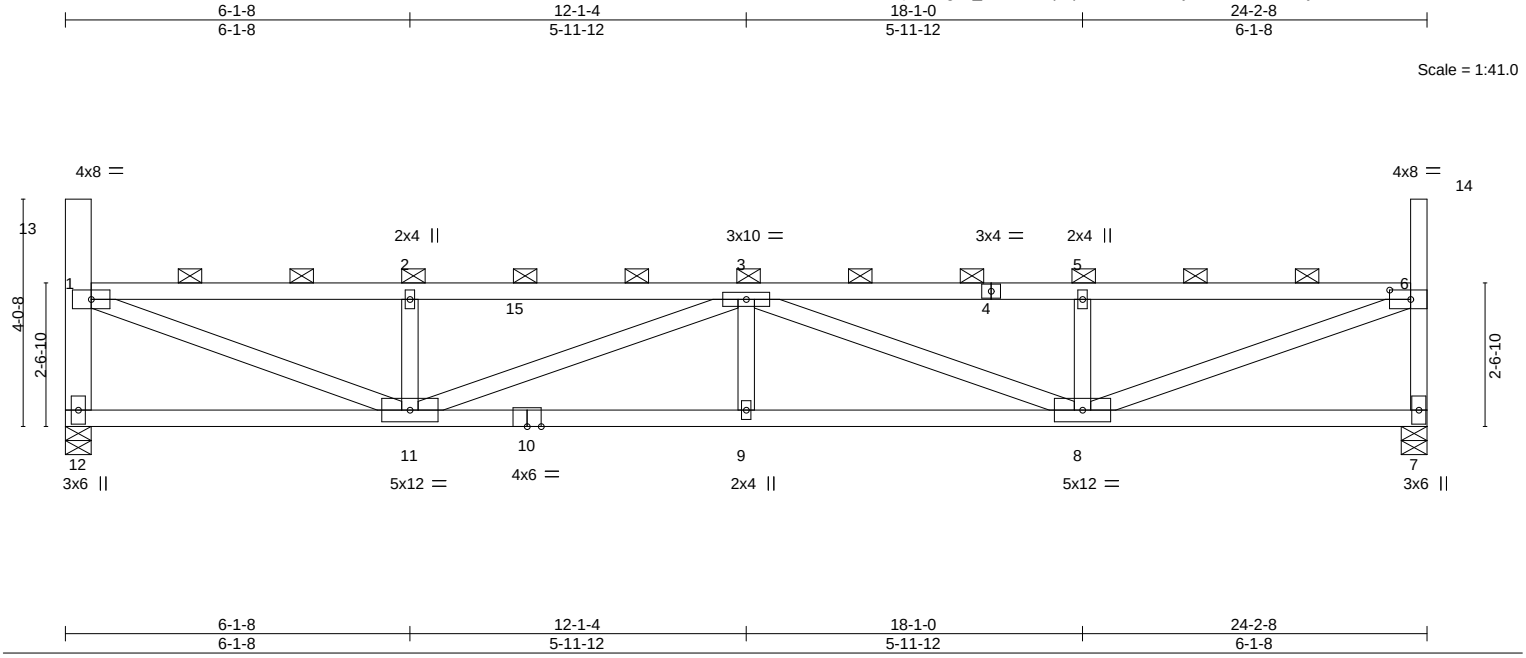


Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.19	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.33	8-9	>869	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 99 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-5-15 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-2 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-204(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-951/559, 1-2=-2039/1092, 2-3=-2039/1092, 3-5=-2061/1101, 5-6=-2061/1101, 6-7=-951/560
BOT CHORD 11-12=-379/341, 9-11=-1510/2659, 8-9=-1510/2659
WEBS 1-11=-1153/2100, 2-11=-400/338, 3-11=-672/454, 3-8=-650/439, 5-8=-407/344, 6-8=-1163/2126

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A13	Flat	3	1	I50440392
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:08 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-HHDw_c37VA?MLL1XvChcT33fZEDalr9QmZN9OgzhuEX

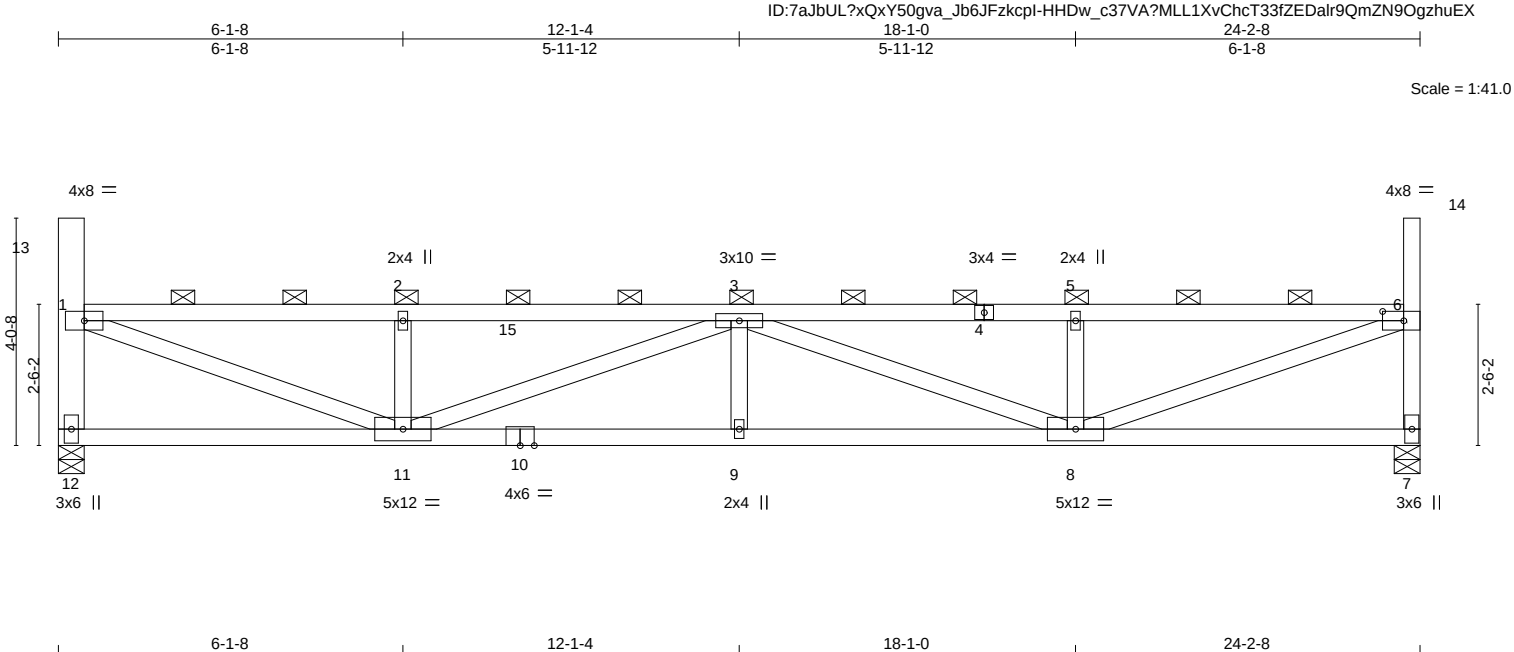


Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	0.19	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.34	8-9	>840	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 99 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-5-7 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-10 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-206(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-951/559, 1-2=-2077/1112, 2-3=-2077/1112, 3-5=-2099/1121, 5-6=-2099/1121, 6-7=-951/560
BOT CHORD 11-12=-386/347, 9-11=-1536/2708, 8-9=-1536/2708
WEBS 1-11=-1172/2133, 2-11=-400/338, 3-11=-683/462, 3-8=-661/447, 5-8=-407/344, 6-8=-1182/2160

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard Except:
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A13	Flat	3	1	I50440392 Job Reference (optional)

LOAD CASE(S) Standard Except:

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-59-to-6=-48

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-47-to-6=-36

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-47-to-6=-36

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-47-to-6=-36

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-47-to-6=-36

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A14	Flat	3	1	I50440393
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:09 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-lTnIBy4lGT7DzVcjTwDr0Hcq9eZbUHFZ_D7iw6zhuEW

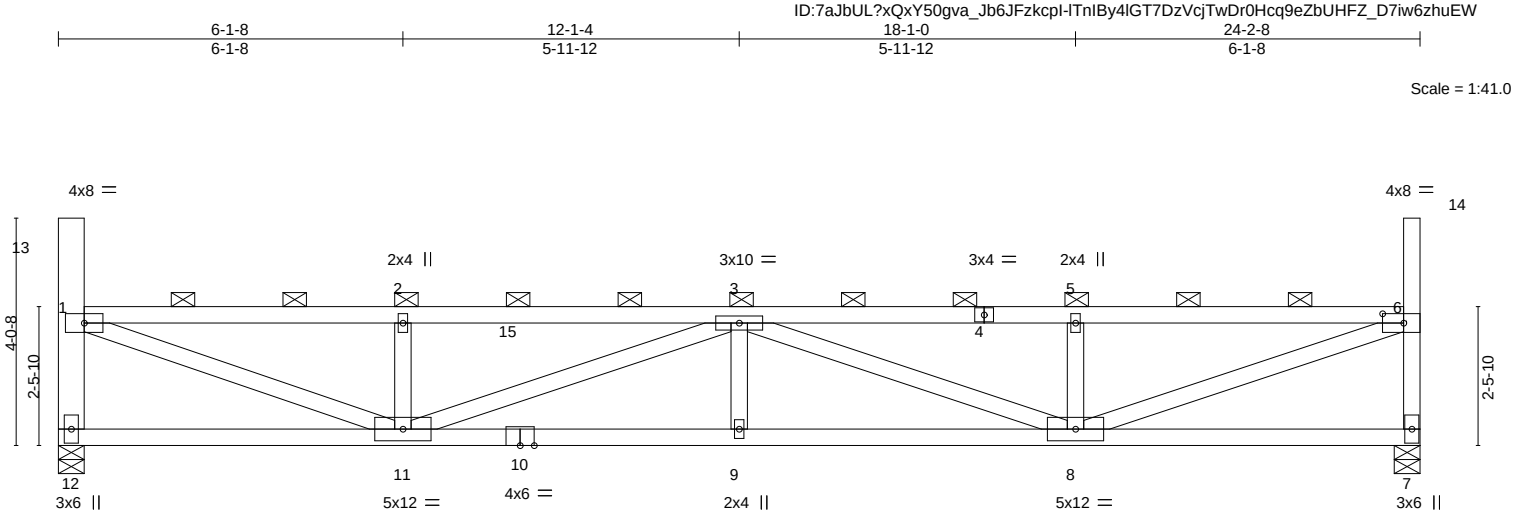


Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.20	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.35	8-9	>812	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 99 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-4-15 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-2 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-209(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-950/560, 1-2=-2115/1133, 2-3=-2115/1133, 3-5=-2138/1142, 5-6=-2138/1142, 6-7=-951/561
BOT CHORD 11-12=-394/354, 9-11=-1563/2760, 8-9=-1563/2760
WEBS 1-11=-1191/2167, 2-11=-400/337, 3-11=-695/471, 3-8=-672/456, 5-8=-406/344, 6-8=-1202/2194

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A14	Flat	3	1	I50440393 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

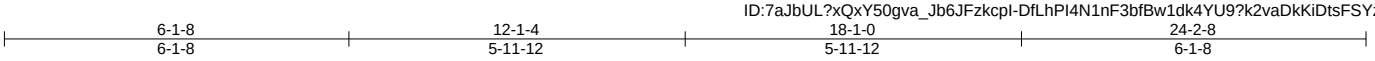
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

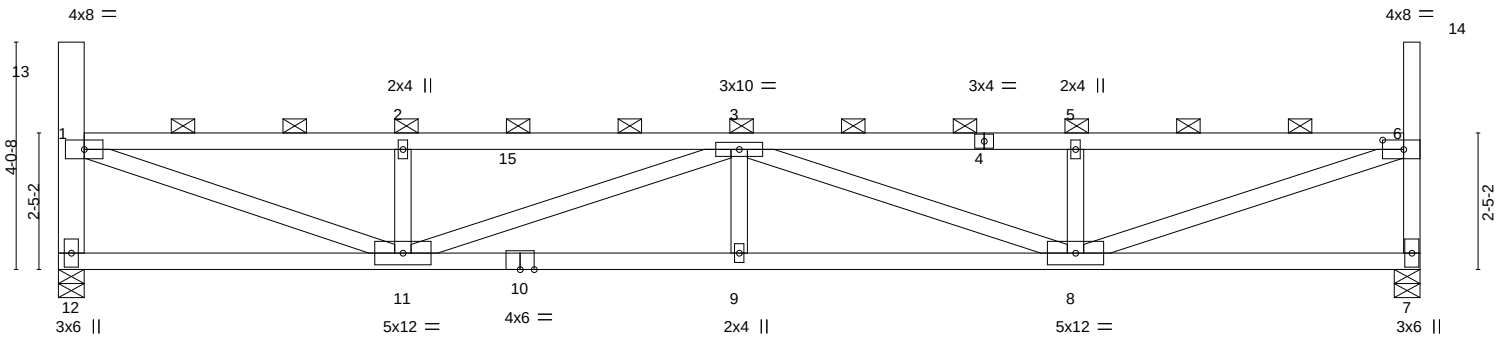
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A15	Flat	3	1	I50440394
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:10 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-DfLhPI4N1nF3bfBw1dk4YU9?k2vaDkKiDtsFSYzhuEV



Scale = 1:41.0



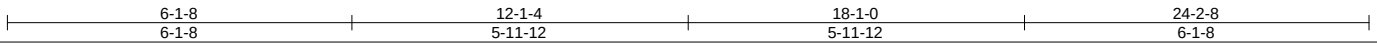


Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.21	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.36	8-9	>784	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 99 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-4-7 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-9 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-211(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-950/560, 1-2=-2156/1155, 2-3=-2156/1155, 3-5=-2179/1164, 5-6=-2179/1164, 6-7=-950/561
BOT CHORD 11-12=-402/361, 9-11=-1592/2813, 8-9=-1592/2813
WEBS 1-11=-1212/2203, 2-11=-399/337, 3-11=-707/480, 3-8=-684/465, 5-8=-406/344, 6-8=-1222/2230

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A15	Flat	3	1	I50440394 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A16	Flat	3	1	I50440395
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:11 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-isv3ce5?o5NwCol6bLFJ5ih9JSDZyCBsSWcp_?zhuEU

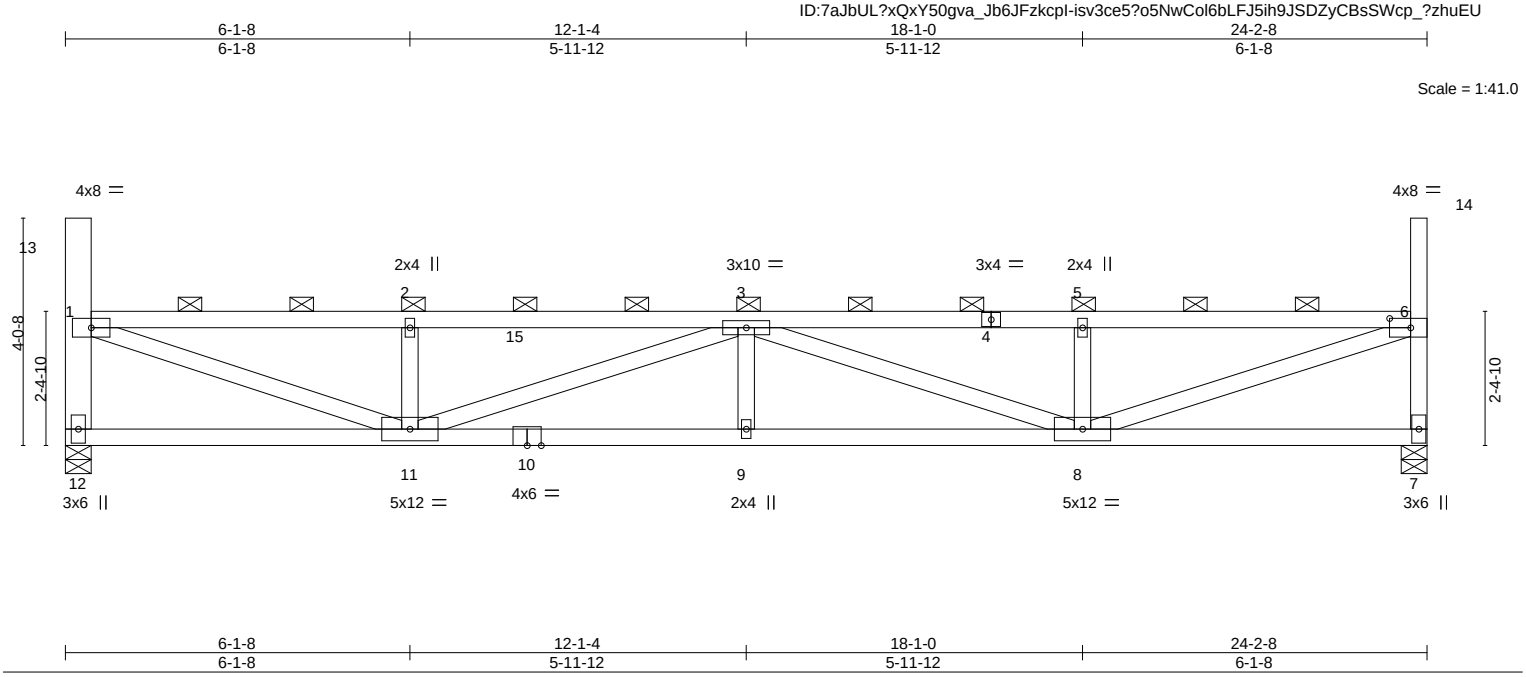


Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.21	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.38	8-9	>756	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 99 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-3-14 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-5 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-213(LC 10)
Max Uplift 12=-16(LC 10), 7=-15(LC 11)
Max Grav 12=1012(LC 2), 7=1012(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-950/502, 1-2=-2198/1099, 2-3=-2198/1099, 3-5=-2221/1107, 5-6=-2221/1107, 6-7=-950/503
BOT CHORD 11-12=-400/377, 9-11=-1552/2868, 8-9=-1552/2868
WEBS 1-11=-1160/2240, 2-11=-399/309, 3-11=-710/499, 3-8=-686/485, 5-8=-405/314, 6-8=-1169/2268

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=86, 6-7=34, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-86
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A16	Flat	3	1	I50440395 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-15=-28, 4=-29-to-6=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-15=4, 4=4-to-6=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A17	Flat	3	1	I50440396
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:12 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-A2TRq_6dZOWnqyKI82mYevEKtsZXhfG?hALMXRzhuET

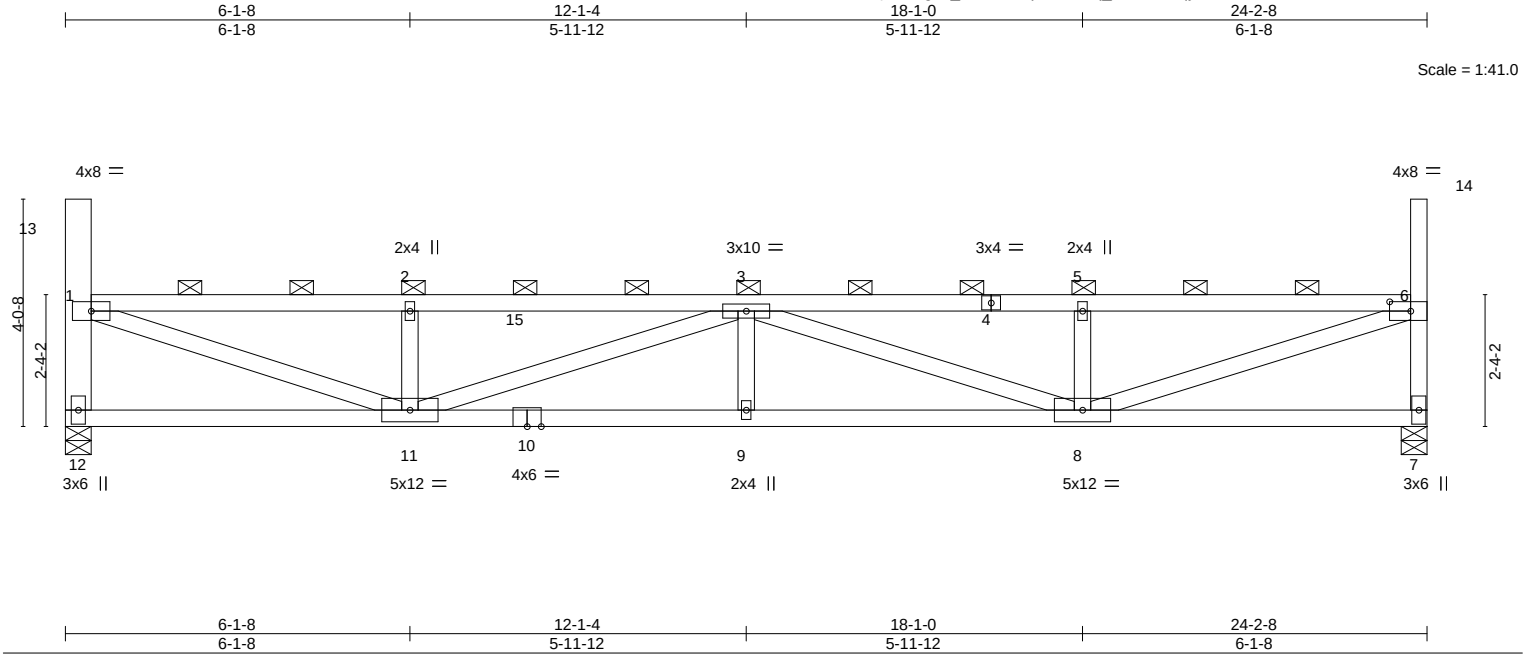


Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.22	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.39	8-9	>728	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 98 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-3-5 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-13 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-215(LC 10)
Max Uplift 12=-16(LC 10), 7=-15(LC 11)
Max Grav 12=1012(LC 2), 7=1012(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-949/502, 1-2=-2241/1121, 2-3=-2241/1121, 3-5=-2265/1129, 5-6=-2265/1129, 6-7=-950/503
BOT CHORD 11-12=-408/385, 9-11=-1580/2925, 8-9=-1580/2925
WEBS 1-11=-1181/2278, 2-11=-399/309, 3-11=-723/509, 3-8=-698/494, 5-8=-405/314, 6-8=-1190/2307

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A17	Flat	3	1	I50440396 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=86, 6-7=34, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-86
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A17	Flat	3	1	I50440396 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-15=-28, 4=-29-to-6=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-15=4, 4=4-to-6=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A18	Flat	3	1	I50440397
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:13 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-eE1p1J7FKieeS6vVilHnA7nVRFvVQ6K9vq5v3tzhuES

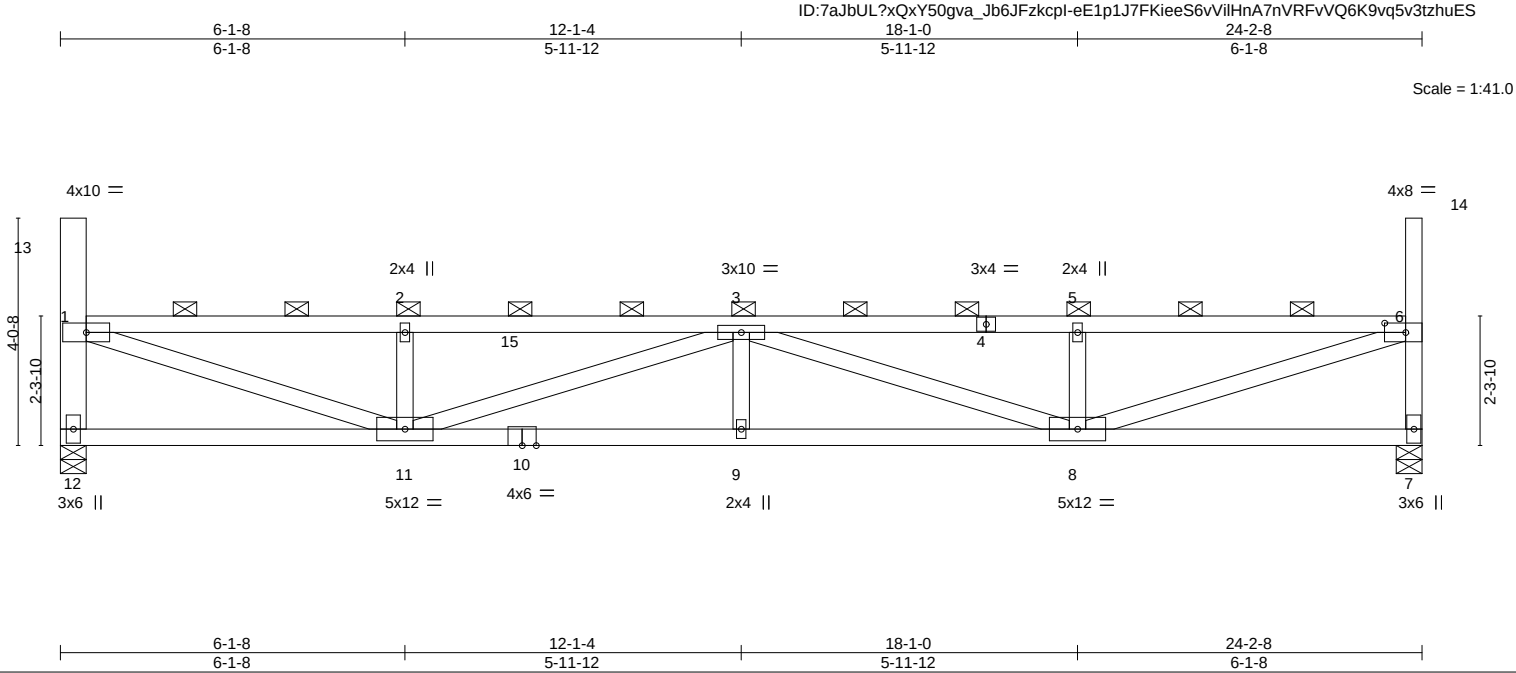


Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	0.23	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.41	8-9	>701	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 98 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-2-12 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-4 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-217(LC 10)
Max Uplift 12=-16(LC 10), 7=-16(LC 11)
Max Grav 12=1012(LC 2), 7=1012(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-949/503, 1-2=-2286/1143, 2-3=-2286/1143, 3-5=-2310/1152, 5-6=-2310/1152, 6-7=-949/504
BOT CHORD 11-12=-416/392, 9-11=-1610/2985, 8-9=-1610/2985
WEBS 1-11=-1203/2318, 2-11=-398/309, 3-11=-737/520, 3-8=-712/504, 5-8=-404/314, 6-8=-1212/2347

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=86, 6-7=34, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-86
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A18	Flat	3	1	I50440397 Job Reference (optional)

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A18	Flat	3	1	I50440397 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-15=-28, 4=-29-to-6=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-15=4, 4=4-to-6=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

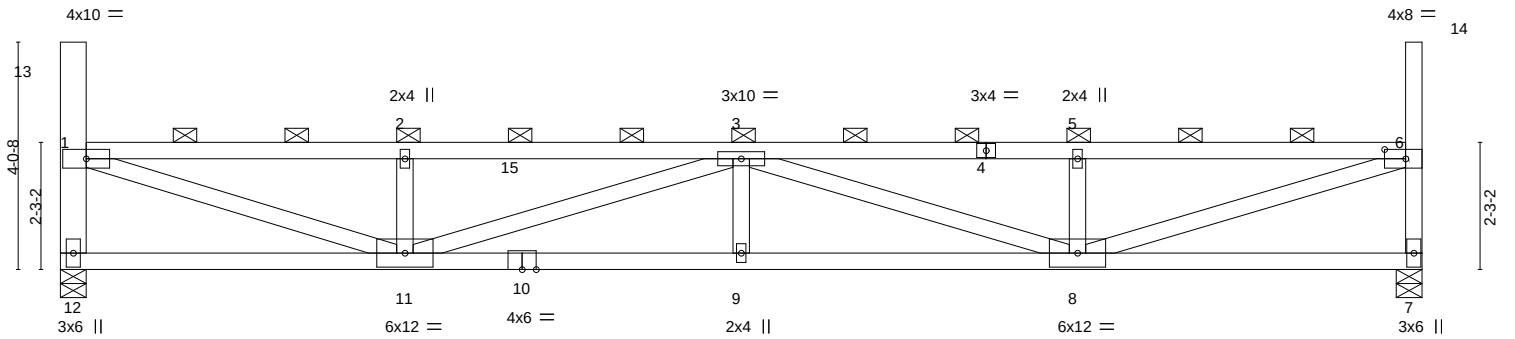
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A19	Flat	3	1	I50440398
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:14 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-6RaBFf7t5?mV3GUhGTo0jKJgzfES9YOI8UqTbKzhuER

6-1-8	12-1-4	18-1-0	24-2-8
6-1-8	5-11-12	5-11-12	6-1-8

Scale = 1:41.0



6-1-8	12-1-4	18-1-0	24-2-8
6-1-8	5-11-12	5-11-12	6-1-8

Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	0.24	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.42	8-9	>675	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 98 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-2-4 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-6-12 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=220(LC 13)
Max Uplift 12=-16(LC 10), 7=-16(LC 11)
Max Grav 12=1012(LC 2), 7=1012(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-949/503, 1-2=-2333/1167, 2-3=-2333/1167, 3-5=-2358/1175, 5-6=-2358/1175, 6-7=-949/504
BOT CHORD 11-12=-425/400, 9-11=-1641/3047, 8-9=-1641/3047
WEBS 1-11=-1225/2360, 2-11=-398/308, 3-11=-751/531, 3-8=-726/515, 5-8=-404/314, 6-8=-1235/2389

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=86, 6-7=34, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-86
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A19	Flat	3	1	I50440398 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-15=-28, 4=-29-to-6=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-15=4, 4=4-to-6=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

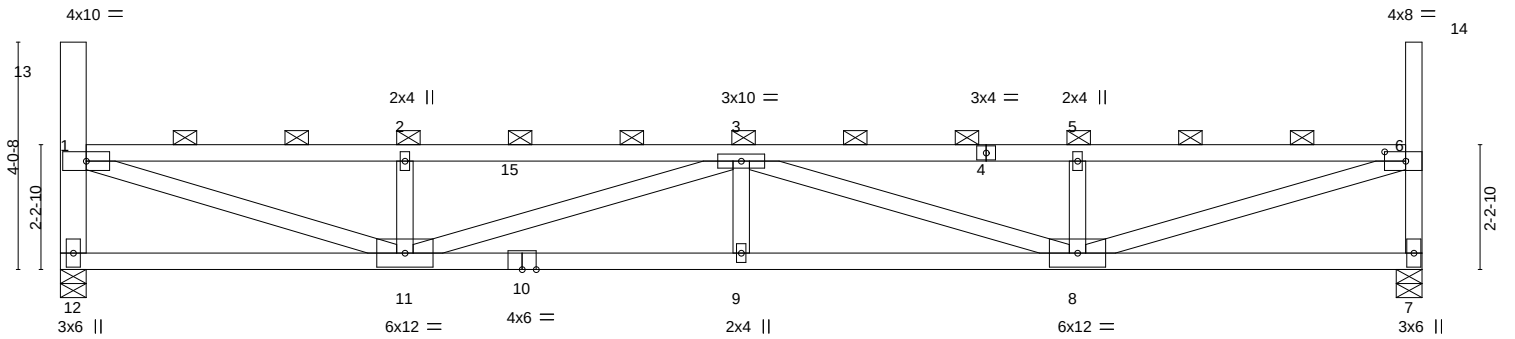
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A20	Flat	3	1	I50440399
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:15 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-ad8aS?8WsJuMhQ3tqAKFFYsrV3aOu?RRN8a07mzhuEQ

6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Scale = 1:41.0



6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	0.25	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.44	8-9	>648	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 98 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-1-10 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-6-2 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-222(LC 10)
Max Uplift 12=-16(LC 10), 7=-16(LC 11)
Max Grav 12=1012(LC 2), 7=1012(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-948/503, 1-2=-2382/1192, 2-3=-2382/1192, 3-5=-2407/1200, 5-6=-2407/1200, 6-7=-949/504
BOT CHORD 11-12=-433/408, 9-11=-1673/3112, 8-9=-1673/3112
WEBS 1-11=-1249/2403, 2-11=-397/308, 3-11=-766/542, 3-8=-740/526, 5-8=-403/314, 6-8=-1259/2433

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=86, 6-7=34, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-86
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A20	Flat	3	1	I50440399 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-15=-28, 4=-29-to-6=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-15=4, 4=4-to-6=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

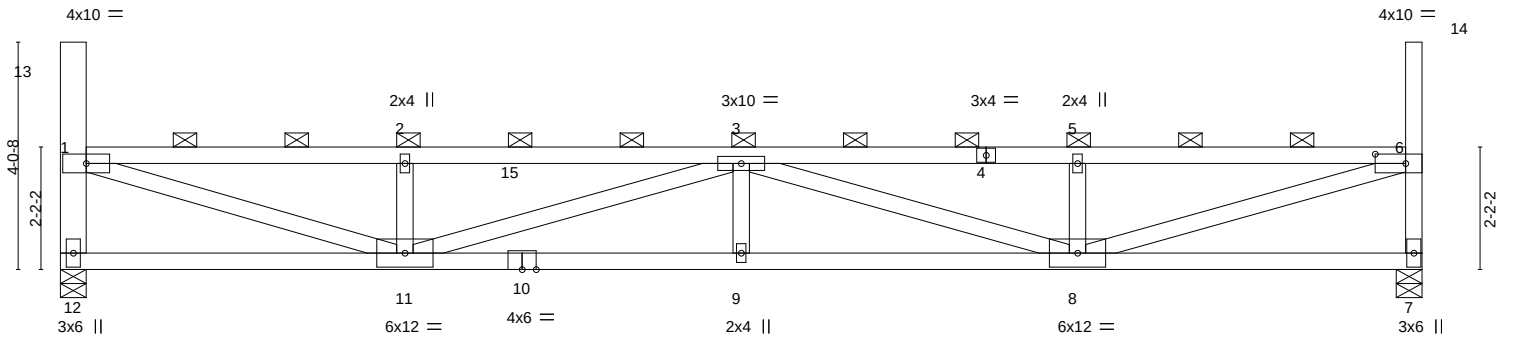
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A21	Flat	3	1	I50440400
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:16 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-2piyfL98dd0DJae4NurUolP??TwJdRdbboJagCzhuEP

6-1-8	12-1-4	18-1-0	24-2-8
6-1-8	5-11-12	5-11-12	6-1-8

Scale = 1:41.0



6-1-8	12-1-4	18-1-0	24-2-8
6-1-8	5-11-12	5-11-12	6-1-8

Plate Offsets (X,Y)-- [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	0.26	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.46	8-9	>622	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 98 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-1-0 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-4-6 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-224(LC 10)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-948/561, 1-2=-2433/1304, 2-3=-2433/1304, 3-5=-2459/1314, 5-6=-2459/1314, 6-7=-948/562
BOT CHORD 11-12=-453/405, 9-11=-1784/3180, 8-9=-1784/3180
WEBS 1-11=-1353/2448, 2-11=-397/336, 3-11=-792/544, 3-8=-767/526, 5-8=-403/343, 6-8=-1365/2479

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A21	Flat	3	1	I50440400 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A22	Flat	3	1	I50440401
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:17 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-W0GKthAmNw84wjDGxbMjKzx9TtFDMudkqS37CezhuEO

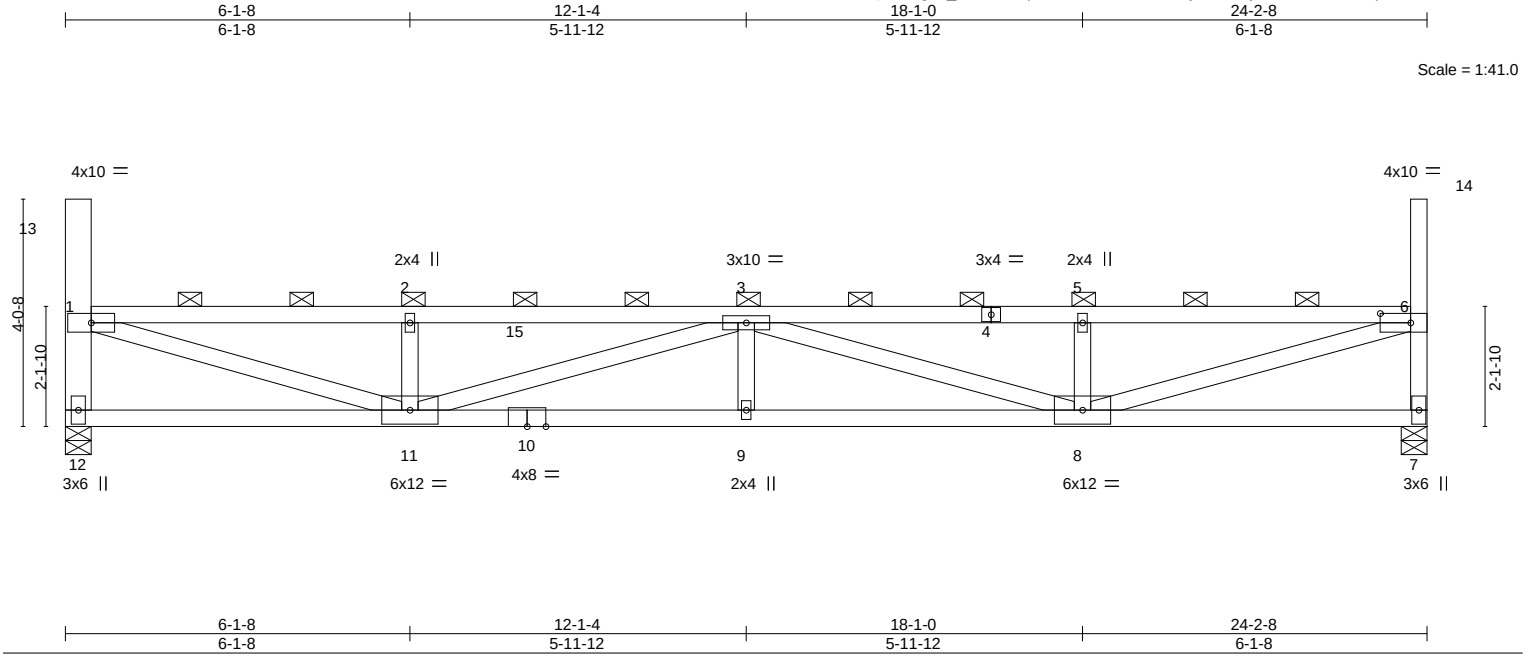


Plate Offsets (X,Y)-- [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.27	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.48	8-9	>597	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-0-5 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-3-13 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-226(LC 10)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-948/561, 1-2=-2487/1332, 2-3=-2487/1332, 3-5=-2513/1342, 5-6=-2513/1342, 6-7=-948/563
BOT CHORD 11-12=-463/413, 9-11=-1820/3250, 8-9=-1820/3250
WEBS 1-11=-1380/2496, 2-11=-396/336, 3-11=-809/556, 3-8=-783/538, 5-8=-402/343, 6-8=-1392/2527

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A22	Flat	3	1	I50440401 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

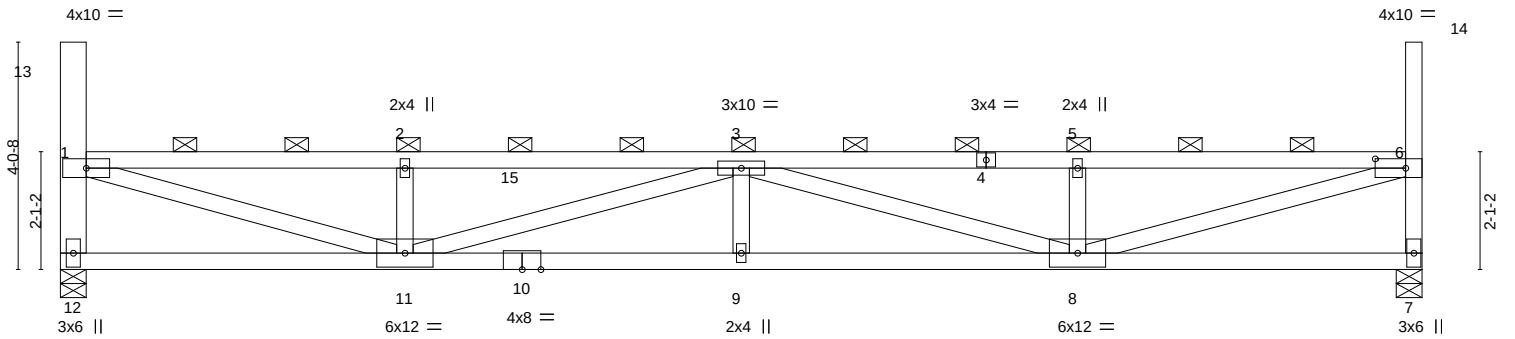
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A23	Flat	3	1	I50440402
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:18 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-_Cqi41BO8EGxYtoSVJtytAUKxGa55LVu36ogk5zhuEN

6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Scale = 1:41.0



6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Plate Offsets (X,Y)-- [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	0.28	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.50	8-9	>572	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (2-11-10 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-4-7 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-228(LC 12)
Max Uplift 12=-17(LC 10), 7=-17(LC 11)
Max Grav 12=1012(LC 2), 7=1012(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-947/503, 1-2=-2542/1272, 2-3=-2542/1272, 3-5=-2569/1281, 5-6=-2569/1281, 6-7=-947/505
BOT CHORD 11-12=-461/433, 9-11=-1778/3324, 8-9=-1778/3324
WEBS 1-11=-1326/2545, 2-11=-396/308, 3-11=-816/580, 3-8=-788/562, 5-8=-402/313, 6-8=-1336/2577

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=86, 6-7=34, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-86
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A23	Flat	3	1	I50440402 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-15=-28, 4=-29-to-6=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-15=4, 4=4-to-6=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

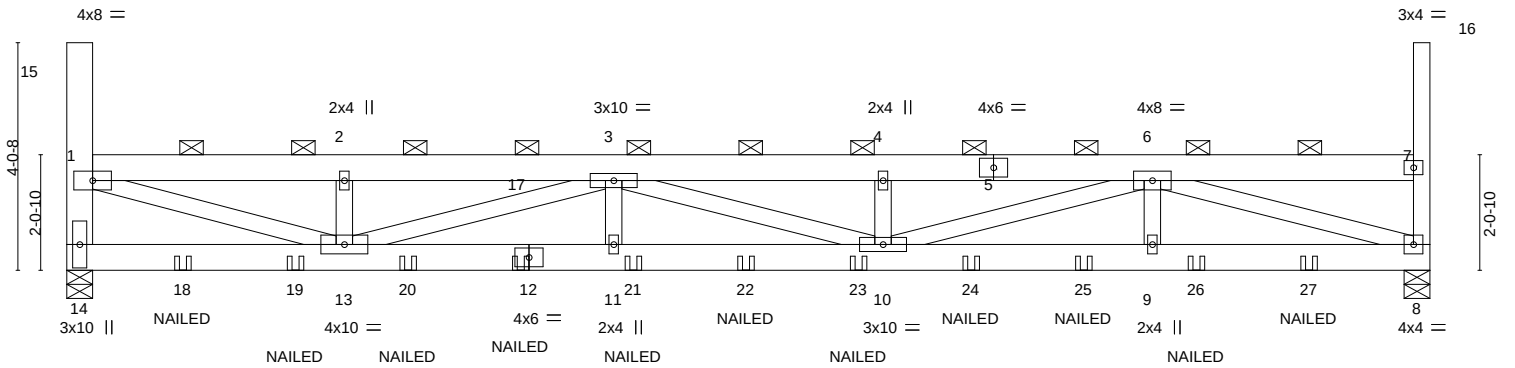
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	A24	FLAT GIRDER	3	2	I50440403
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:34:58 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-D54xjk0xa1YZ21STB9TXvmZhH7Z8P88EDmJ3OlzhjOx

4-11-2	9-8-9	14-5-15	19-3-6	24-2-8
4-11-2	4-9-6	4-9-6	4-9-6	4-11-2

Scale = 1:40.9



4-11-2	9-8-9	14-5-15	19-3-6	24-2-8
4-11-2	4-9-6	4-9-6	4-9-6	4-11-2

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.27	10-11	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.26	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	-0.04	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 255 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except*
14-15: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-10-12 oc bracing.

REACTIONS. (lb/size) 14=1344/0-5-8, 8=1340/0-5-8
Max Horz 14=-232(LC 10)
Max Uplift 14=-1006(LC 10), 8=-877(LC 11)
Max Grav 14=1371(LC 29), 8=1369(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1231/882, 1-2=-3229/2589, 2-17=-3229/2589, 3-17=-3229/2589, 3-4=-4864/3819, 4-5=-4864/3819, 5-6=-4864/3819, 6-7=-223/266
BOT CHORD 14-18=-517/406, 18-19=-517/406, 13-19=-517/406, 13-20=-3855/4854, 12-20=-3855/4854, 11-12=-3855/4854, 11-21=-3855/4854, 21-22=-3855/4854, 22-23=-3855/4854, 10-23=-3855/4854, 10-24=-2423/3287, 24-25=-2423/3287, 9-25=-2423/3287, 9-26=-2423/3287, 26-27=-2423/3287, 8-27=-2423/3287
WEBS 1-13=-2476/3168, 2-13=-271/260, 3-13=-1712/1402, 3-11=-349/251, 4-10=-280/263, 6-10=-1482/1662, 6-9=-270/255, 6-8=-3292/2443

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1006 lb uplift at joint 14 and 877 lb uplift at joint 8.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	A24	FLAT GIRDER	3	2	I50440403 Job Reference (optional)

NOTES-

11) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 5-17=-58, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-65(B) 18=-65(B) 19=-65(B) 20=-65(B) 21=-65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65(B) 26=-65(B) 27=-65(B)
   Trapezoidal Loads (plf)
   Vert: 1=-73-to-17=-58, 5=-58-to-7=-73
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 5-17=-48, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-54(B) 18=-54(B) 19=-54(B) 20=-54(B) 21=-54(B) 22=-54(B) 23=-54(B) 24=-54(B) 25=-54(B) 26=-54(B) 27=-57(B)
   Trapezoidal Loads (plf)
   Vert: 1=-60-to-17=-48, 5=-49-to-7=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 5-17=-36, 8-14=-20
   Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
   Concentrated Loads (lb)
   Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=-92(B)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 5-17=-36, 8-14=-20
   Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
   Concentrated Loads (lb)
   Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=-61(B)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 5-17=-36, 8-14=-20
   Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
   Concentrated Loads (lb)
   Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=-82(B)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 5-17=-36, 8-14=-20
   Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
   Concentrated Loads (lb)
   Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=-82(B)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 5-17=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-65(B) 18=-65(B) 19=-65(B) 20=-65(B) 21=-65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65(B) 26=-65(B) 27=-67(B)
   Trapezoidal Loads (plf)
   Vert: 1=-75-to-17=-60, 5=-60-to-7=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A25	Flat	2	1	I50440404
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:21 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-PnWrj2DGR9eWPLW1ARQfVp6uUUlUImjKl41LLQzhuEK

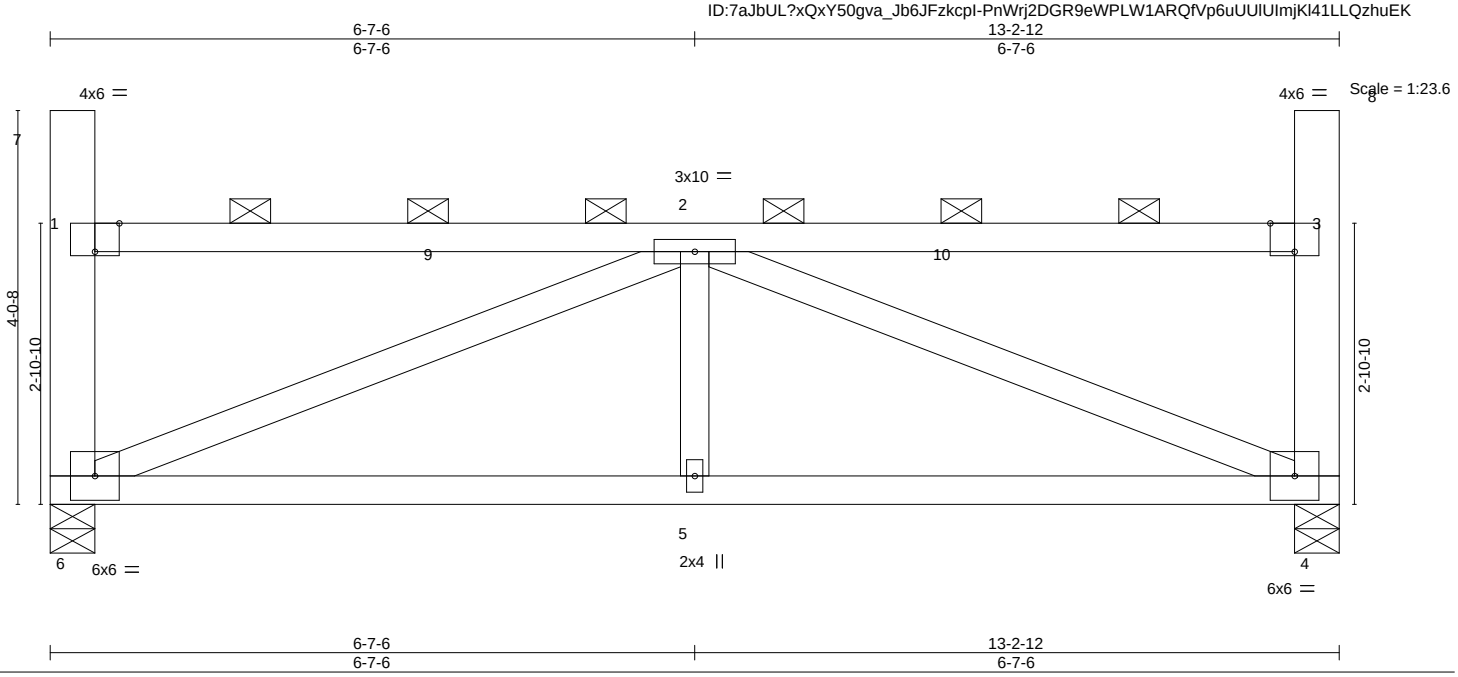


Plate Offsets (X,Y)-- [1:0-3-0,Edge], [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.04	5-6	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.08	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.02	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 60 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
6-7,4-8: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, 3-8, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-2 oc bracing.

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=-187(LC 10)
Max Uplift 6=-35(LC 10), 4=-35(LC 11)
Max Grav 6=539(LC 2), 4=539(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 5-6=-709/765, 4-5=-709/765
WEBS 2-6=-761/731, 2-5=0/284, 2-4=-761/727

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
3) C-C wind load user defined.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S)
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-58, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-9=-58, 10=-58-to-3=-73

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 9-10=-60, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-75-to-9=-60, 10=-60-to-3=-75
3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 9-10=-50, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-65-to-9=-50, 10=-50-to-3=-65
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 9-10=-48, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-63-to-9=-48, 10=-48-to-3=-63
5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: 9-10=-20, 4-6=-40
   Trapezoidal Loads (plf)
      Vert: 1=-35-to-9=-20, 10=-20-to-3=-35
6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=72, 4-6=-12
      Horz: 1-6=22, 1-7=108, 3-4=37, 3-8=61
   Trapezoidal Loads (plf)
      Vert: 1=57-to-9=72, 10=72-to-3=57
7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=72, 4-6=-12
      Horz: 1-6=-37, 1-7=-61, 3-4=-22, 3-8=-108
   Trapezoidal Loads (plf)
      Vert: 1=57-to-9=72, 10=72-to-3=57
8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-33, 4-6=-20
      Horz: 1-6=-26, 1-7=39, 3-4=-34, 3-8=61
   Trapezoidal Loads (plf)
      Vert: 1=-48-to-9=-33, 10=-33-to-3=-48
9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-33, 4-6=-20
      Horz: 1-6=34, 1-7=-61, 3-4=26, 3-8=-39
   Trapezoidal Loads (plf)
      Vert: 1=-48-to-9=-33, 10=-33-to-3=-48
10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=16, 4-6=-12
      Horz: 1-6=12, 1-7=50, 3-4=18, 3-8=33
   Trapezoidal Loads (plf)
      Vert: 1=1-to-9=16, 10=16-to-3=1
11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=16, 4-6=-12
      Horz: 1-6=-18, 1-7=-33, 3-4=-12, 3-8=-50
   Trapezoidal Loads (plf)
      Vert: 1=1-to-9=16, 10=16-to-3=1
12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-3, 4-6=-20
      Horz: 1-6=24, 1-7=50, 3-4=6, 3-8=33
   Trapezoidal Loads (plf)
      Vert: 1=-18-to-9=-3, 10=-3-to-3=-18
13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-3, 4-6=-20
      Horz: 1-6=-6, 1-7=-33, 3-4=-24, 3-8=-50
   Trapezoidal Loads (plf)
      Vert: 1=-18-to-9=-3, 10=-3-to-3=-18
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=16, 4-6=-12
      Horz: 1-6=7, 1-7=-33, 3-4=15, 3-8=33
   Trapezoidal Loads (plf)
      Vert: 1=1-to-9=16, 10=16-to-3=1
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S)

Uniform Loads (plf)
Vert: 9-10=16, 4-6=-12
Horz: 1-6=-15, 1-7=-33, 3-4=-7, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=16, 10=16-to-3=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=16, 4-6=-12
Horz: 1-6=7, 1-7=-33, 3-4=15, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=16, 10=16-to-3=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=16, 4-6=-12
Horz: 1-6=-15, 1-7=-33, 3-4=-7, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=16, 10=16-to-3=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-3, 4-6=-20
Horz: 1-6=19, 1-7=-33, 3-4=4, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-9=-3, 10=-3-to-3=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-3, 4-6=-20
Horz: 1-6=-4, 1-7=-33, 3-4=-19, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-9=-3, 10=-3-to-3=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 9-10=-20, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-9=-20, 10=-20-to-3=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-36, 10=-36-to-3=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-36, 10=-36-to-3=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-36, 10=-36-to-3=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-36, 10=-36-to-3=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-38, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-9=-38, 10=-38-to-3=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-38, 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-9=-38, 10=-38-to-3=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-38, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-9=-38, 10=-38-to-3=-53

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A25	Flat	2	1	I50440404 Job Reference (optional)

LOAD CASE(S)

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-38, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-9=-38, 10=-38-to-3=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-60, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-60, 10=-60-to-3=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-28, 4-6=-12
Horz: 1-6=-16, 1-7=33, 3-4=-16, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-9=-28, 10=-28-to-3=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=4, 4-6=-12
Horz: 1-6=16, 1-7=33, 3-4=16, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-9=4, 10=4-to-3=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-60, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-60, 10=-60-to-3=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-60, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-60, 10=-60-to-3=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-50, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-9=-50, 10=-50-to-3=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-50, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-9=-50, 10=-50-to-3=-65

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

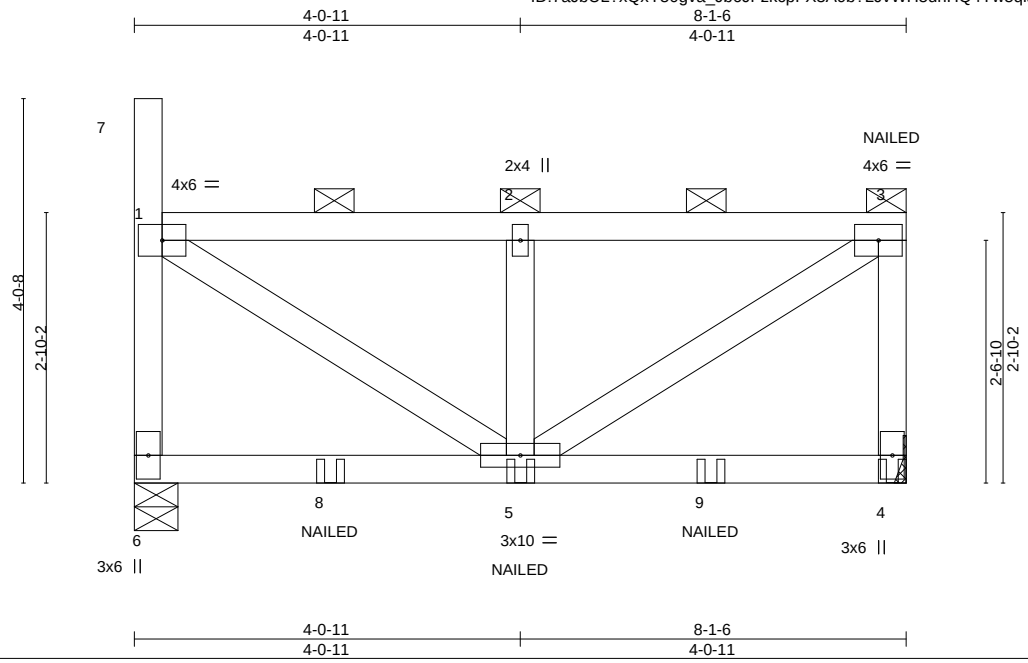
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	B01	FLAT GIRDER	5	1	I50440405
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:36:47 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-X3A9b?LJvWH5dnHQ4Yw5qlaH63ozSVVHIDDLkxzhjNE



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	0.03	5-6	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	0.03	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 37 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=412/0-5-8, 4=459/Mechanical
Max Horz 6=-144(LC 10)
Max Uplift 6=-325(LC 10), 4=-352(LC 11)
Max Grav 6=421(LC 29), 4=470(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-371/404, 1-2=-398/377, 2-3=-398/377, 3-4=-420/434
BOT CHORD 6-8=-244/306, 5-8=-244/306
WEBS 1-5=-451/450, 2-5=-281/401, 3-5=-469/475

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 325 lb uplift at joint 6 and 352 lb uplift at joint 4.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-58, 4-6=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 5=-56(F) 3=-66(F) 8=-56(F) 9=-56(F)
Trapezoidal Loads (plf)
Vert: 1=-73-to-2=-57

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-48, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-47(F) 3=-58(F) 8=-47(F) 9=-47(F)
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-48

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5
Concentrated Loads (lb)
Vert: 5=124(F) 3=-93(F) 8=124(F) 9=124(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=-5, 1-7=-37, 3-4=-18
Concentrated Loads (lb)
Vert: 5=124(F) 3=-62(F) 8=124(F) 9=124(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3
Concentrated Loads (lb)
Vert: 5=124(F) 3=-70(F) 8=124(F) 9=124(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14
Concentrated Loads (lb)
Vert: 5=124(F) 3=-62(F) 8=124(F) 9=124(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-56(F) 3=-68(F) 8=-56(F) 9=-56(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

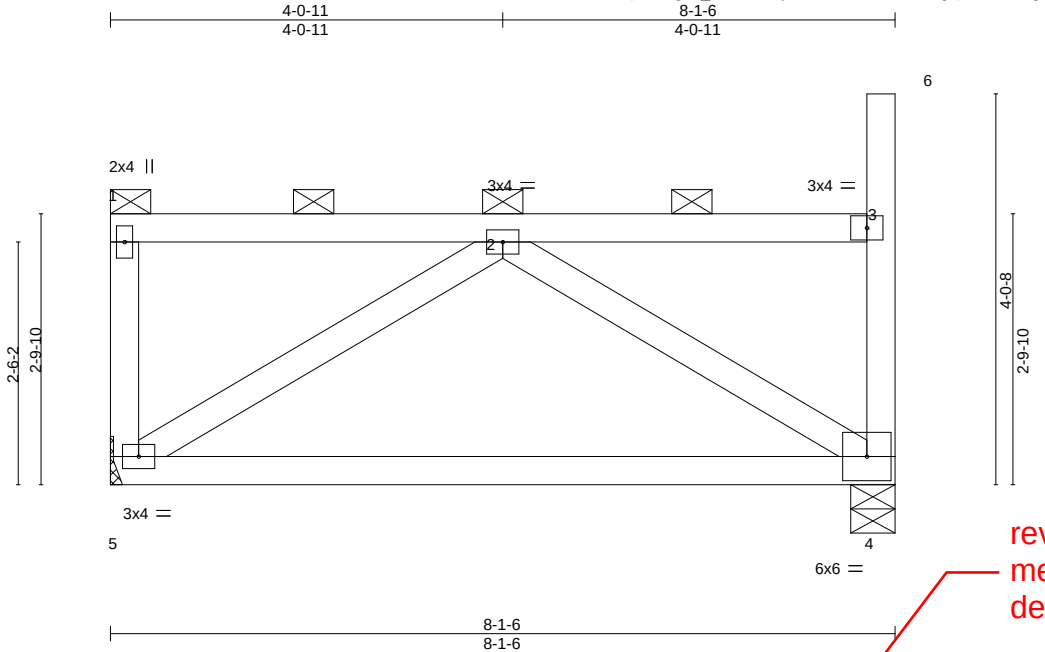
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B02	Flat	5	1	I50440406
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:23 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-L9db8kEXzmuDeegQIsT7aEBIgHKSmo2dCOWRQIzhuEI



revise as required to meet project deflection limits, -bdc

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.22	4-5	>418	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.45	4-5	>209	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.11	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP							Weight: 35 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 3-6, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-2 oc bracing.

REACTIONS. (size) 5=Mechanical, 4=0-5-8
Max Horz 5=-145(LC 10)
Max Uplift 5=-58(LC 10), 4=-58(LC 11)
Max Grav 5=318(LC 29), 4=337(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 4-5=-451/232
WEBS 2-5=-275/501, 2-4=-252/506

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-58, 4-5=-20
Trapezoidal Loads (plf)
Vert: 2=-57-to-3=-73
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-48, 4-5=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B02	Flat	5	1	I50440406 Job Reference (optional)

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 2=-48-to-3=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-36, 4-5=-20
Horz: 1-5=18, 3-4=5, 3-6=37
Trapezoidal Loads (plf)
Vert: 2=-36-to-3=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-36, 4-5=-20
Horz: 1-5=-5, 3-4=-18, 3-6=-37
Trapezoidal Loads (plf)
Vert: 2=-36-to-3=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-36, 4-5=-20
Horz: 1-5=14, 3-4=3, 3-6=25
Trapezoidal Loads (plf)
Vert: 2=-36-to-3=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-36, 4-5=-20
Horz: 1-5=-3, 3-4=-14, 3-6=25
Trapezoidal Loads (plf)
Vert: 2=-36-to-3=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 4-5=-20
Trapezoidal Loads (plf)
Vert: 2=-60-to-3=-75

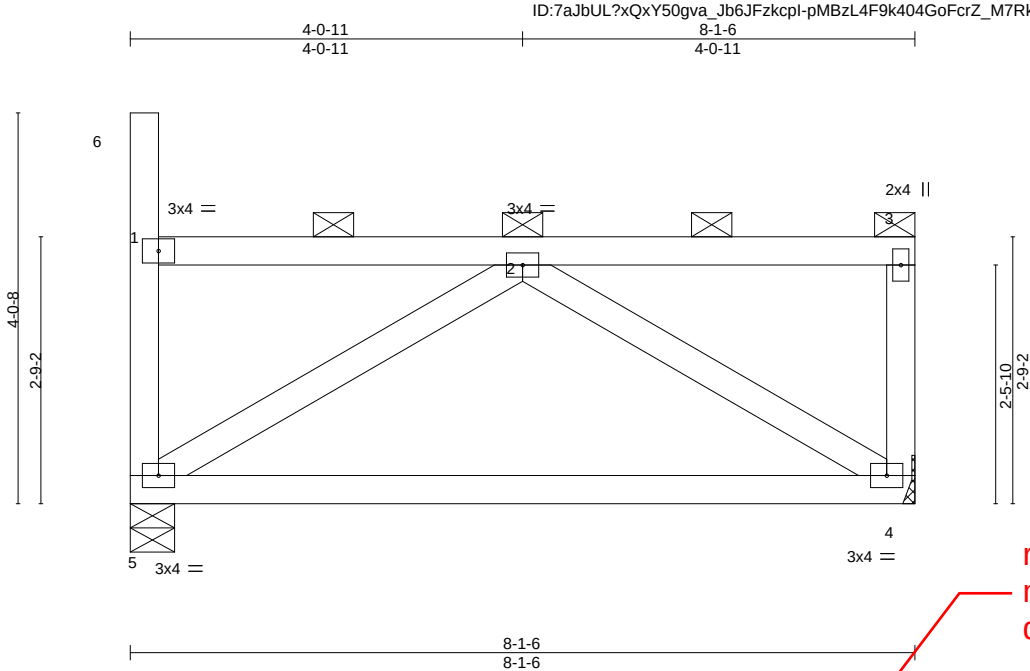
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B03	Flat	5	1	I50440407
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:24 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-pMBzL4F9k404GoFcrZ_M7RkTchgfVFHmR2F?ykzhuEH



revise as required to meet project deflection limits, -bdc

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.22	4-5	>418	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.45	4-5	>209	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.11	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP							Weight: 35 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-4 oc bracing.

REACTIONS. (size) 5=0-5-8, 4=Mechanical
Max Horz 5=-146(LC 10)
Max Uplift 5=-34(LC 10), 4=-53(LC 11)
Max Grav 5=337(LC 2), 4=318(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 4-5=-449/236
WEBS 2-5=-255/506, 2-4=-279/495

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-58, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-2=-57
2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-3=-60, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-50, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-2=-50

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-48, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-2=-48

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-3=-20, 4-5=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-2=-20

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=87, 4-5=-12
Horz: 1-5=25, 1-6=125, 3-4=40
Trapezoidal Loads (plf)
Vert: 1=72-to-2=87

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=87, 4-5=-12
Horz: 1-5=-40, 1-6=-66, 3-4=-25
Trapezoidal Loads (plf)
Vert: 1=72-to-2=87

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-35, 4-5=-20
Horz: 1-5=-28, 1-6=43, 3-4=-37
Trapezoidal Loads (plf)
Vert: 1=-50-to-2=-34

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-35, 4-5=-20
Horz: 1-5=37, 1-6=-66, 3-4=28
Trapezoidal Loads (plf)
Vert: 1=-50-to-2=-34

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=12, 1-6=50, 3-4=18
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=-18, 1-6=-50, 3-4=-12
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-3, 4-5=-20
Horz: 1-5=24, 1-6=50, 3-4=6
Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-3, 4-5=-20
Horz: 1-5=-6, 1-6=-50, 3-4=-24
Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=7, 1-6=-33, 3-4=15
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=-15, 1-6=-33, 3-4=-7
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=7, 1-6=-33, 3-4=15
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=-15, 1-6=-33, 3-4=-7
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-3, 4-5=-20
Horz: 1-5=19, 1-6=-33, 3-4=4
Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-3, 4-5=-20
Horz: 1-5=-4, 1-6=-33, 3-4=-19
Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 2-3=-20, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-2=-20

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=18, 1-6=37, 3-4=5
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=-5, 1-6=-37, 3-4=-18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=14, 1-6=-25, 3-4=3
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=-3, 1-6=-25, 3-4=-14
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-38, 4-5=-20
Horz: 1-5=18, 1-6=37, 3-4=5
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-38, 4-5=-20
Horz: 1-5=-5, 1-6=-37, 3-4=-18
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-38, 4-5=-20
Horz: 1-5=14, 1-6=-25, 3-4=3
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B03	Flat	5	1	I50440407 Job Reference (optional)

LOAD CASE(S) Standard

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-38, 4-5=-20
Horz: 1-5=-3, 1-6=-25, 3-4=-14
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-28, 4-5=-12
Horz: 1-5=-16, 1-6=33, 3-4=-16
Trapezoidal Loads (plf)
Vert: 1=-43-to-2=-28

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=4, 4-5=-12
Horz: 1-5=16, 1-6=33, 3-4=16
Trapezoidal Loads (plf)
Vert: 1=-11-to-2=5

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-50, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-2=-50

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-50, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-2=-50

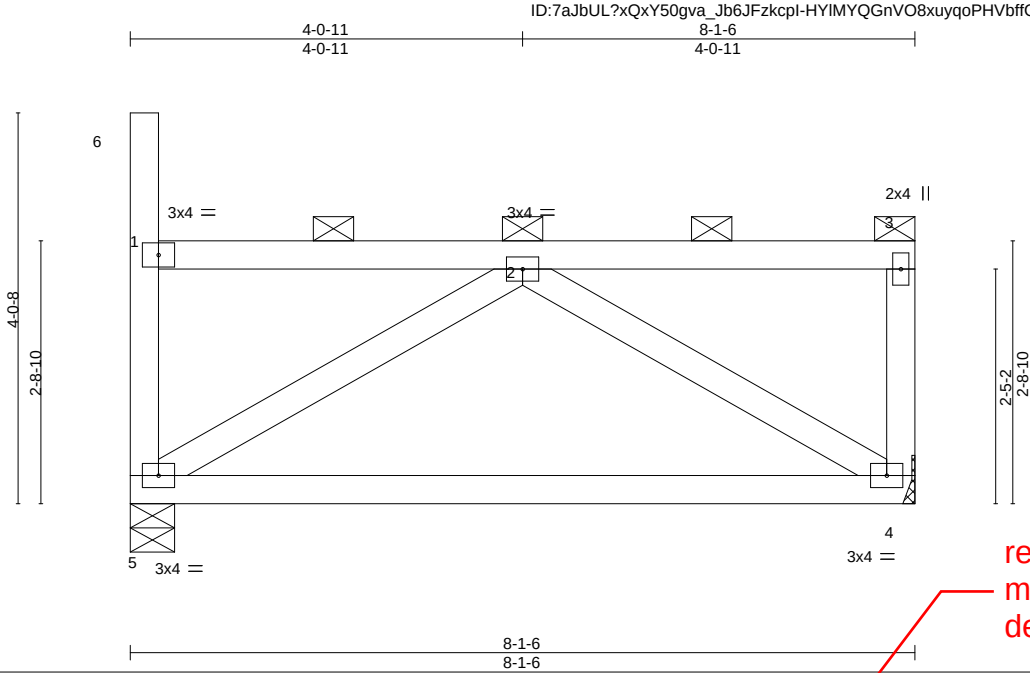
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B04	Flat	5	1	I50440408
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:25 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-HYlMYQGnVO8xuyqoPHVbffGeL50uEiWwgi?YUBzhuEG



revise as required to meet project deflection limits, -bdc

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.22	4-5	>418	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.45	4-5	>209	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.11	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP							Weight: 35 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-8 oc bracing.

REACTIONS. (size) 5=0-5-8, 4=Mechanical
Max Horz 5=-147(LC 10)
Max Uplift 5=-34(LC 10), 4=-53(LC 11)
Max Grav 5=337(LC 2), 4=318(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 4-5=-456/240
WEBS 2-5=-258/512, 2-4=-282/501

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-58, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-2=-57
2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-3=-60, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-50, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-2=-50

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-48, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-2=-48

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-3=-20, 4-5=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-2=-20

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=87, 4-5=-12
Horz: 1-5=25, 1-6=125, 3-4=40
Trapezoidal Loads (plf)
Vert: 1=72-to-2=87

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=87, 4-5=-12
Horz: 1-5=-40, 1-6=-66, 3-4=-25
Trapezoidal Loads (plf)
Vert: 1=72-to-2=87

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-35, 4-5=-20
Horz: 1-5=-28, 1-6=43, 3-4=-37
Trapezoidal Loads (plf)
Vert: 1=-50-to-2=-34

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-35, 4-5=-20
Horz: 1-5=37, 1-6=-66, 3-4=28
Trapezoidal Loads (plf)
Vert: 1=-50-to-2=-34

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=12, 1-6=50, 3-4=18
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=-18, 1-6=-50, 3-4=-12
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-3, 4-5=-20
Horz: 1-5=24, 1-6=50, 3-4=6
Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-3, 4-5=-20
Horz: 1-5=-6, 1-6=-50, 3-4=-24
Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=7, 1-6=-33, 3-4=15
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=-15, 1-6=-33, 3-4=-7
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=7, 1-6=-33, 3-4=15
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=-15, 1-6=-33, 3-4=-7
Trapezoidal Loads (plf)
Vert: 1=1-to-2=17

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-3, 4-5=-20
Horz: 1-5=19, 1-6=-33, 3-4=4
Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-3, 4-5=-20
Horz: 1-5=-4, 1-6=-33, 3-4=-19
Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 2-3=-20, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-2=-20

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=18, 1-6=37, 3-4=5
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=-5, 1-6=-37, 3-4=-18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=14, 1-6=-25, 3-4=3
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=-3, 1-6=-25, 3-4=-14
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-38, 4-5=-20
Horz: 1-5=18, 1-6=37, 3-4=5
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-38, 4-5=-20
Horz: 1-5=-5, 1-6=-37, 3-4=-18
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-38, 4-5=-20
Horz: 1-5=14, 1-6=-25, 3-4=3
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B04	Flat	5	1	I50440408 Job Reference (optional)

LOAD CASE(S) Standard

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-38, 4-5=-20
Horz: 1-5=-3, 1-6=-25, 3-4=-14
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-28, 4-5=-12
Horz: 1-5=-16, 1-6=33, 3-4=-16
Trapezoidal Loads (plf)
Vert: 1=-43-to-2=-28

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=4, 4-5=-12
Horz: 1-5=16, 1-6=33, 3-4=16
Trapezoidal Loads (plf)
Vert: 1=-11-to-2=5

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-50, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-2=-50

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-50, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-2=-50

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

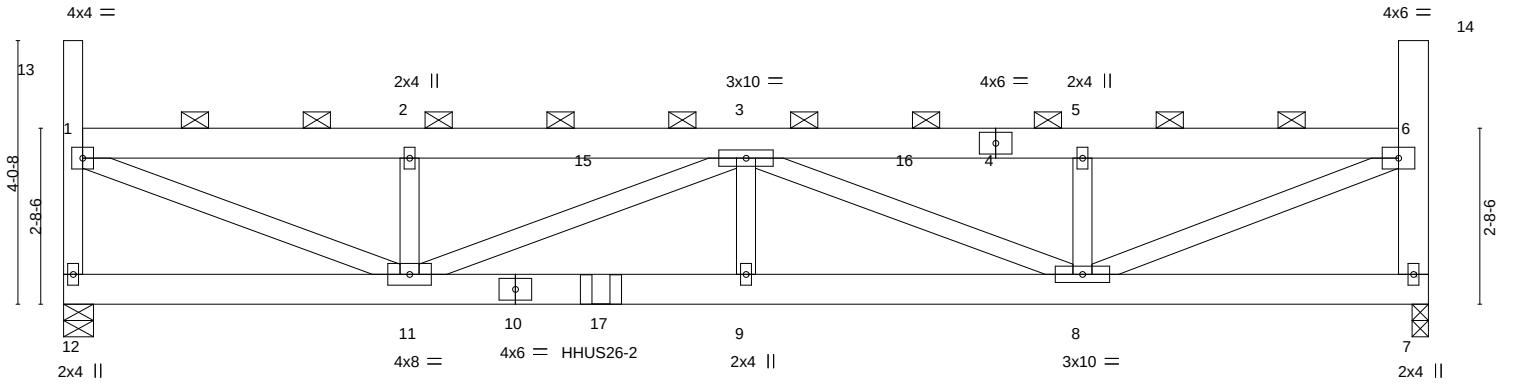
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	B05	FLAT GIRDER	5	3	I50440409
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:39:02 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-41qBx9z_6?lxJW6MUOrloDgP0UpBaXF8KjQ_zczhjL7

5-3-11	10-5-9	15-7-8	20-11-2
5-3-11	5-1-15	5-1-15	5-3-10

Scale = 1:35.3



5-3-11	10-5-9	15-7-8	20-11-2
5-3-11	5-1-15	5-1-15	5-3-10

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.09	9-11	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.12	9-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 341 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except*
7-14: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 12=1509/0-5-8, 7=1280/0-3-0
Max Horz 12=-198(LC 10)
Max Uplift 12=-228(LC 11), 7=-182(LC 11)
Max Grav 12=1569(LC 25), 7=1316(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1604/954, 1-2=-3509/1887, 2-15=-3509/1887, 3-15=-3509/1887, 3-16=-2439/1428, 4-16=-2439/1428, 4-5=-2439/1428, 5-6=-2439/1428, 6-7=-1216/766
BOT CHORD 11-12=-370/324, 10-11=-2518/4495, 10-17=-2518/4495, 9-17=-2518/4495, 8-9=-2518/4495
WEBS 1-11=-1995/3667, 2-11=-336/318, 3-11=-1021/698, 3-9=-381/1142, 3-8=-2246/1174, 5-8=-345/312, 6-8=-1527/2551

NOTES-
1) n/a
2) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
3) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
4) Unbalanced roof live loads have been considered for this design.
5) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
6) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
7) Provide adequate drainage to prevent water ponding.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 228 lb uplift at joint 12 and 182 lb uplift at joint 7.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	B05	FLAT GIRDER	5	3	I50440409
					Job Reference (optional)

NOTES-

12) Load case(s) 1, 2, 3, 4, 5, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 8-2-14 from the left end to connect truss(es) to front face of bottom chord.
15) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 15-16=-58, 7-12=-20
   Concentrated Loads (lb)
   Vert: 17=-1074(F)
   Trapezoidal Loads (plf)
   Vert: 1=-73-to-15=-58, 16=-58-to-6=-73
2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 15-16=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 17=-1106(F)
   Trapezoidal Loads (plf)
   Vert: 1=-75-to-15=-60, 16=-60-to-6=-75
3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 15-16=-50, 7-12=-20
   Concentrated Loads (lb)
   Vert: 17=-968(F)
   Trapezoidal Loads (plf)
   Vert: 1=-65-to-15=-50, 16=-50-to-6=-65
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 15-16=-48, 7-12=-20
   Concentrated Loads (lb)
   Vert: 17=-944(F)
   Trapezoidal Loads (plf)
   Vert: 1=-63-to-15=-48, 16=-48-to-6=-63
5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 15-16=-20, 7-12=-40
   Concentrated Loads (lb)
   Vert: 17=-829(F)
   Trapezoidal Loads (plf)
   Vert: 1=-35-to-15=-20, 16=-20-to-6=-35
10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 15-16=16, 7-12=-12
   Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
   Concentrated Loads (lb)
   Vert: 17=61(F)
   Trapezoidal Loads (plf)
   Vert: 1=1-to-15=16, 16=16-to-6=1
11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 15-16=16, 7-12=-12
   Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
   Concentrated Loads (lb)
   Vert: 17=437(F)
   Trapezoidal Loads (plf)
   Vert: 1=1-to-15=16, 16=16-to-6=1
12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 15-16=-3, 7-12=-20
   Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
   Concentrated Loads (lb)
   Vert: 17=-1321(F)
   Trapezoidal Loads (plf)
   Vert: 1=-18-to-15=-3, 16=-3-to-6=-18
13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 15-16=-3, 7-12=-20
   Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
   Concentrated Loads (lb)
   Vert: 17=-634(F)
   Trapezoidal Loads (plf)
   Vert: 1=-18-to-15=-3, 16=-3-to-6=-18
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Concentrated Loads (lb)
Vert: 17=208(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Concentrated Loads (lb)
Vert: 17=208(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Concentrated Loads (lb)
Vert: 17=208(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Concentrated Loads (lb)
Vert: 17=208(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Concentrated Loads (lb)
Vert: 17=-1092(F)
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 16=-3-to-6=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Concentrated Loads (lb)
Vert: 17=-1092(F)
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 16=-3-to-6=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 15-16=-20, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-553(F)
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 16=-20-to-6=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1520(F)
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 16=-36-to-6=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Concentrated Loads (lb)
Vert: 17=-1005(F)
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 16=-36-to-6=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1349(F)

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 16=-36-to-6=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1349(F)
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 16=-36-to-6=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1544(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 16=-38-to-6=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Concentrated Loads (lb)
Vert: 17=-1029(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 16=-38-to-6=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1372(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 16=-38-to-6=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1372(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 16=-38-to-6=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-1106(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 16=-60-to-6=-75

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-1106(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 16=-60-to-6=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-1106(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 16=-60-to-6=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-50, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-968(F)
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 16=-50-to-6=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-50, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-968(F)

Continued on page 5

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	B05	FLAT GIRDER	5	3	I50440409 Job Reference (optional)

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 16=-50-to-6=-65

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B06	Flat	2	1	I50440410
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:28 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-i7RUBSIfoJXWlQZN4P2IHHu5HI3CRvcMMgDC5WzhuED

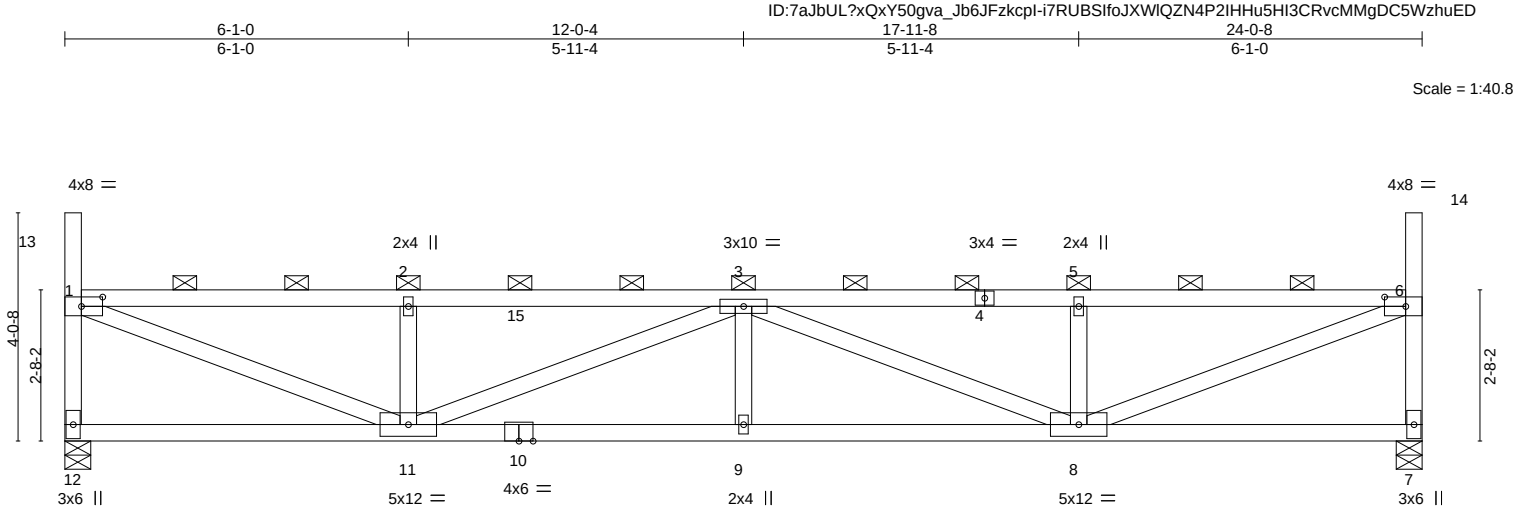


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	0.17	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.30	9-11	>965	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-7-13 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-0-0 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-198(LC 10)
Max Uplift 12=-14(LC 10), 7=-14(LC 11)
Max Grav 12=1009(LC 2), 7=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-949/501, 1-2=-1938/971, 2-3=-1938/971, 3-5=-1938/970, 5-6=-1938/970, 6-7=-949/501
BOT CHORD 11-12=-346/329, 9-11=-1371/2503, 8-9=-1371/2503
WEBS 1-11=-1036/2018, 2-11=-406/315, 3-11=-610/431, 3-8=-610/427, 5-8=-406/313, 6-8=-1039/2018

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=87, 6-7=34, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B06	Flat	2	1	I50440410 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-15=-28, 4=-29-to-6=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-15=4, 4=4-to-6=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B07	Flat	2	1	I50440411
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:29 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-AJ_sOoJIZcfNMZ8Ze6aXqVRGviPEAL_VbKzmdyzhuEC

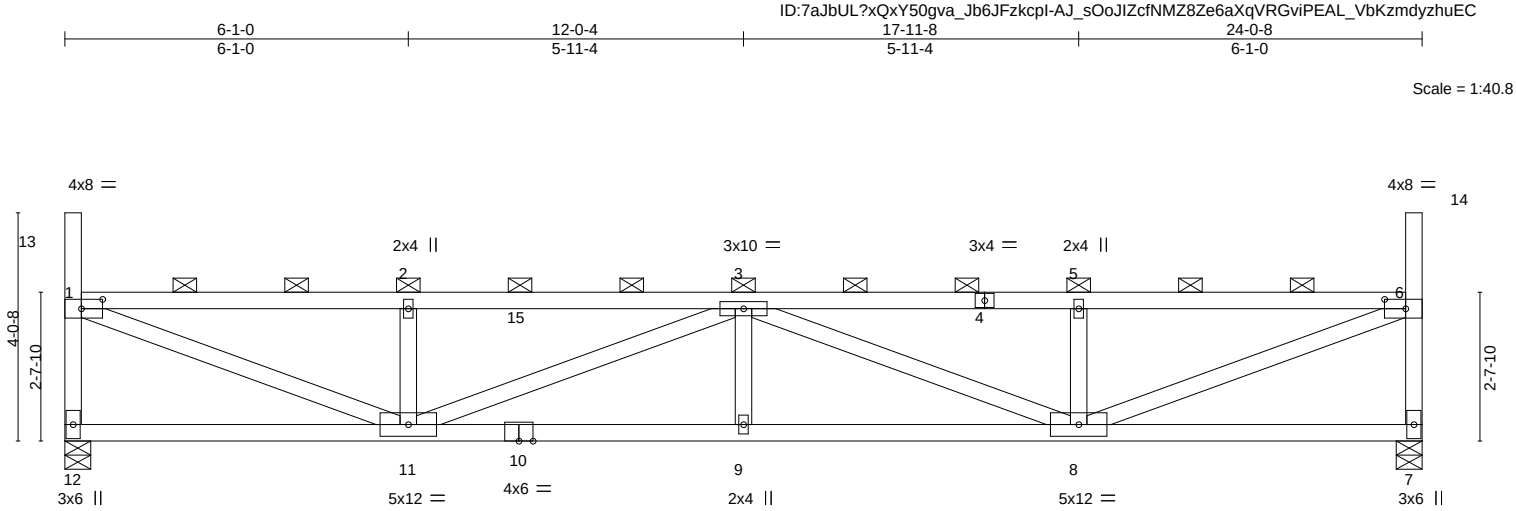


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.17	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.30	9-11	>935	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-7-6 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-3 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=200(LC 11)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-949/559, 1-2=-1971/1060, 2-3=-1971/1060, 3-5=-1971/1058, 5-6=-1971/1058, 6-7=-949/560
BOT CHORD 11-12=-361/327, 9-11=-1456/2547, 8-9=-1456/2547
WEBS 1-11=-1120/2047, 2-11=-406/344, 3-11=-629/429, 3-8=-629/425, 5-8=-406/343, 6-8=-1123/2047

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B07	Flat	2	1	I50440411 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B08	Flat	2	1	I50440412
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:30 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-eWYFc7KwKwnE_jimCq5mMi_QW6kGvprfp_iJ9OzhuEB

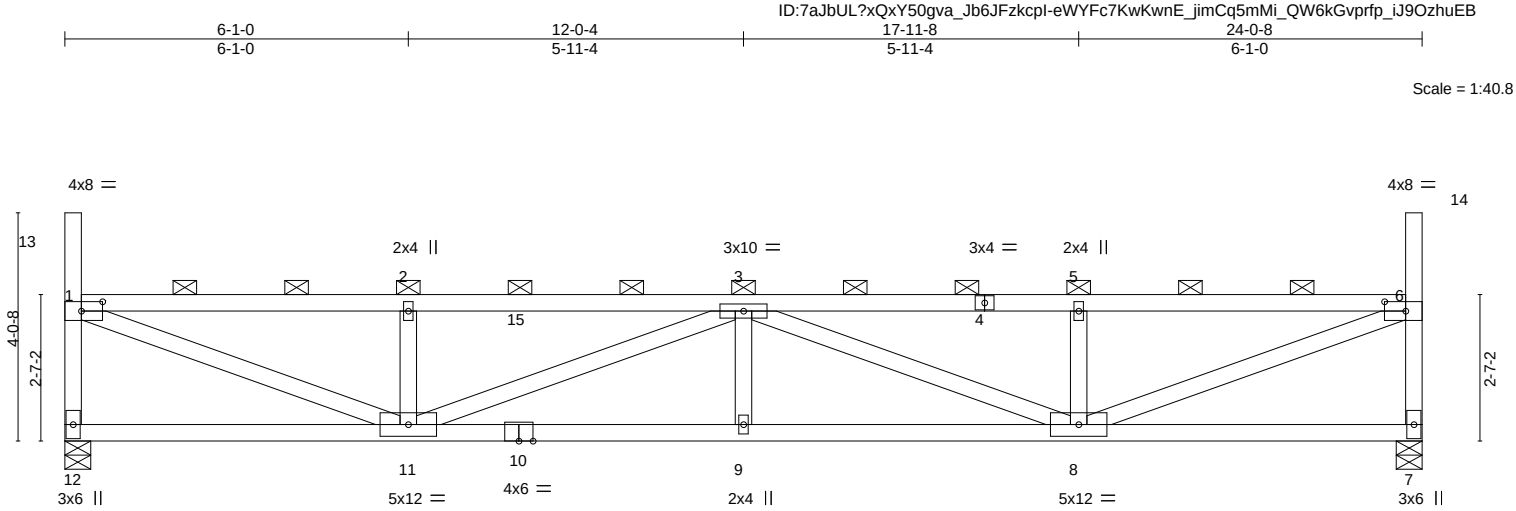


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	0.18	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.31	9-11	>905	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-6-14 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-11-1 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-202(LC 10)
Max Uplift 12=-14(LC 10), 7=-14(LC 11)
Max Grav 12=1009(LC 2), 7=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-949/501, 1-2=-2006/1006, 2-3=-2006/1006, 3-5=-2006/1005, 5-6=-2006/1005, 6-7=-949/502
BOT CHORD 11-12=-360/341, 9-11=-1417/2593, 8-9=-1417/2593
WEBS 1-11=-1068/2078, 2-11=-405/315, 3-11=-629/447, 3-8=-629/442, 5-8=-405/313, 6-8=-1071/2078

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=87, 6-7=34, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B08	Flat	2	1	I50440412 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-15=-28, 4=-29-to-6=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-15=4, 4=4-to-6=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B09	Flat	2	1	I50440413
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:31 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-6i6dpTLY4Ev5ctHymXc?vwWb8W3IeFCo2eSsirzhuEA

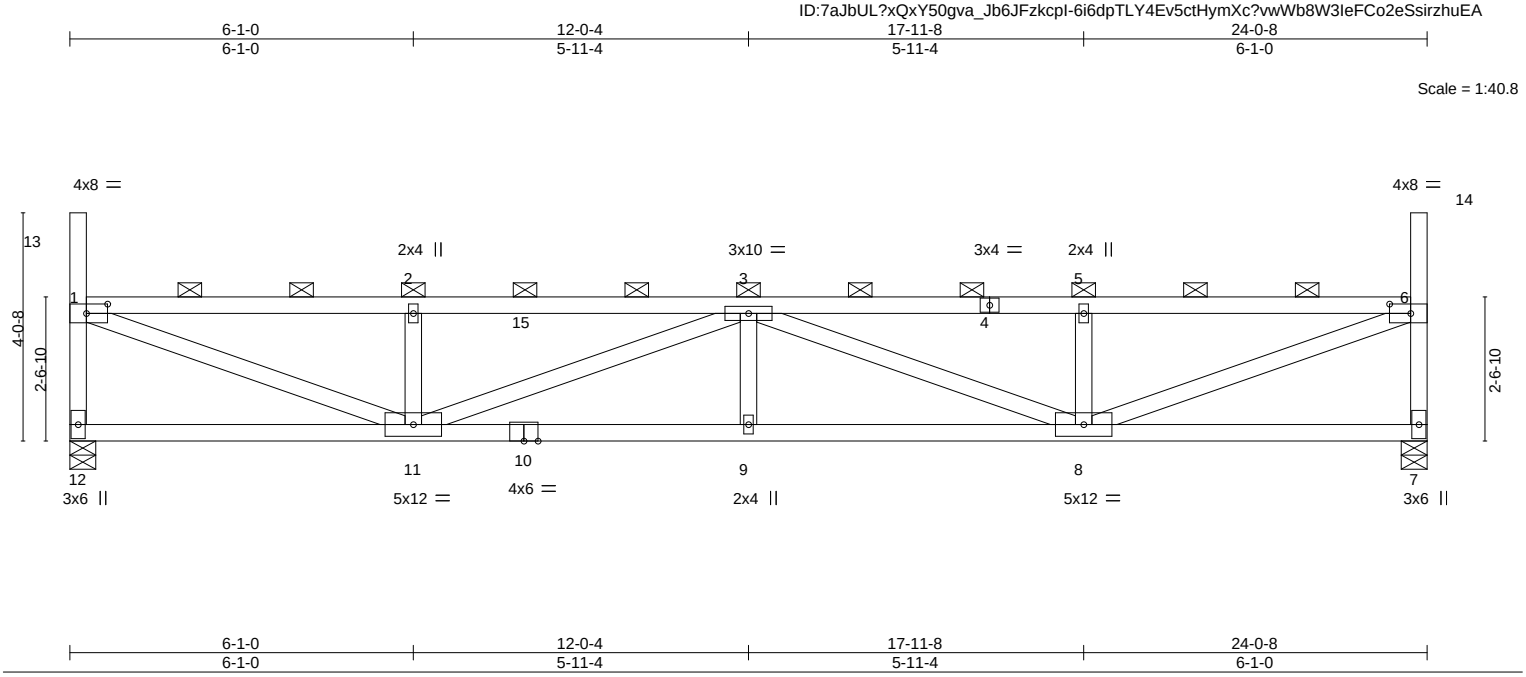


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.19	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.33	9-11	>876	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-6-6 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-2 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-204(LC 12)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-948/560, 1-2=-2042/1098, 2-3=-2042/1098, 3-5=-2042/1097, 5-6=-2042/1097, 6-7=-948/561
BOT CHORD 11-12=-375/340, 9-11=-1506/2640, 8-9=-1506/2640
WEBS 1-11=-1156/2110, 2-11=-405/344, 3-11=-650/445, 3-8=-650/440, 5-8=-405/343, 6-8=-1159/2110

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B09	Flat	2	1	I50440413 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

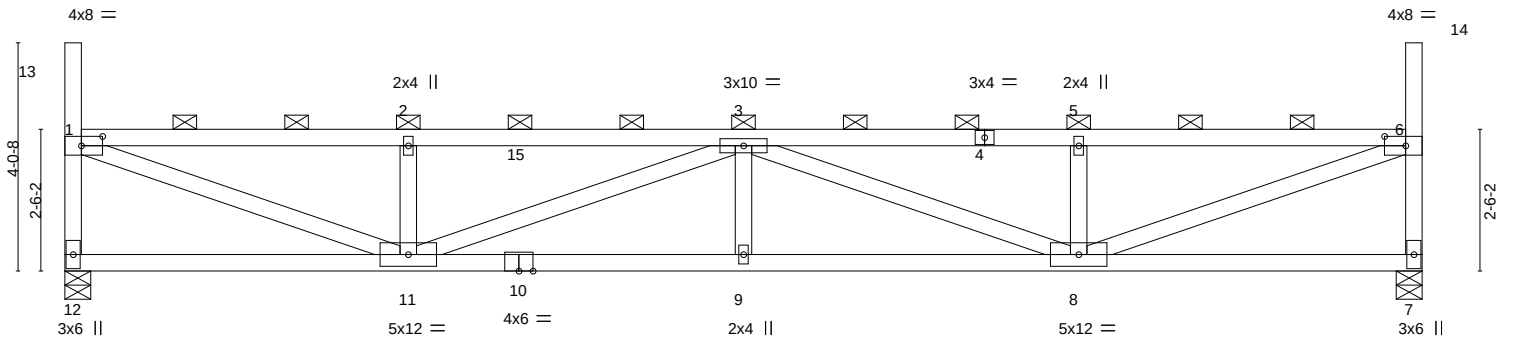
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B10	Flat	2	1	I50440414
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:33 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-25ENE9Mocr9prBRLtyeT_LcwVJlY69Y5WyxzmjzhuE8

6-1-0 | 12-0-4 | 17-11-8 | 24-0-8
6-1-0 | 5-11-4 | 5-11-4 | 6-1-0

Scale = 1:40.8



6-1-0 | 12-0-4 | 17-11-8 | 24-0-8
6-1-0 | 5-11-4 | 5-11-4 | 6-1-0

Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.19	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.34	9-11	>847	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-5-15 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-10 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-206(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-948/560, 1-2=-2080/1118, 2-3=-2080/1118, 3-5=-2080/1117, 5-6=-2080/1117, 6-7=-948/561
BOT CHORD 11-12=-382/346, 9-11=-1532/2689, 8-9=-1532/2689
WEBS 1-11=-1175/2143, 2-11=-405/344, 3-11=-661/454, 3-8=-661/448, 5-8=-405/343, 6-8=-1178/2143

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B10	Flat	2	1	I50440414 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B11	Flat	2	1	I50440415
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:34 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-WHolRVNQN9HgTL0XRg9iXY856j5YrceEkbgXI9zhuE7

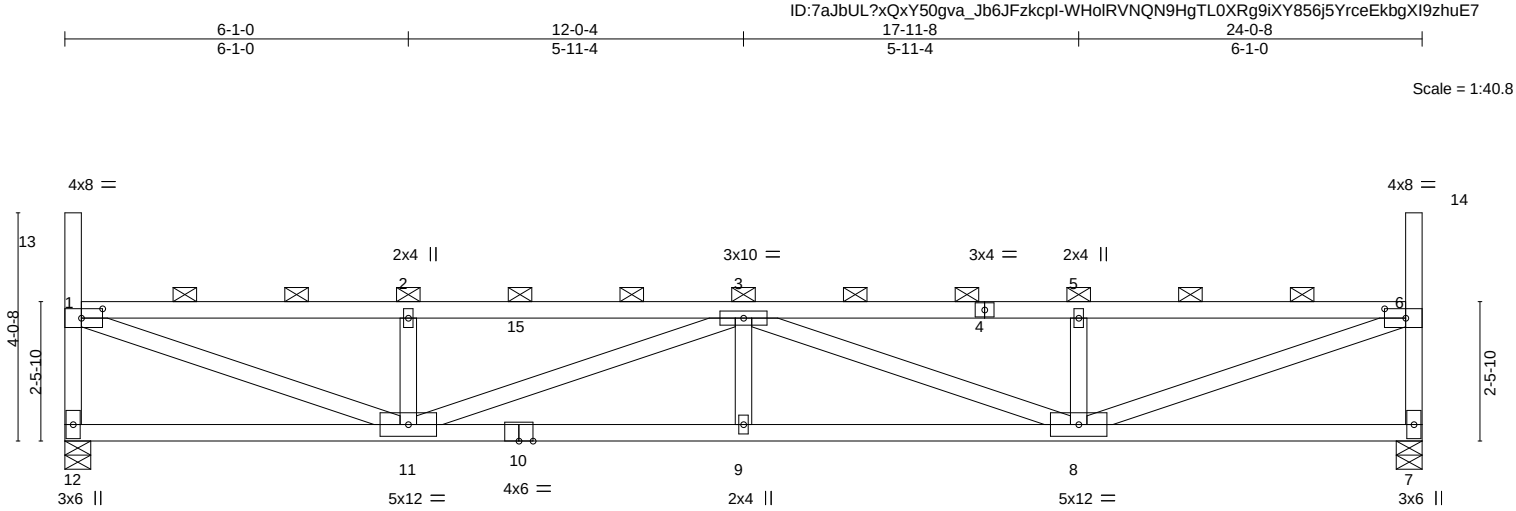


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.20	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.35	9-11	>818	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 96 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-5-6 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-2 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-209(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-948/561, 1-2=-2119/1139, 2-3=-2119/1139, 3-5=-2119/1138, 5-6=-2119/1138, 6-7=-948/561
BOT CHORD 11-12=-390/352, 9-11=-1559/2740, 8-9=-1559/2740
WEBS 1-11=-1194/2177, 2-11=-404/344, 3-11=-672/463, 3-8=-672/457, 5-8=-404/343, 6-8=-1198/2177

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B11	Flat	2	1	I50440415 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B12	Flat	2	1	I50440416
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:35 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-?TM8frO38SPW4Vbj?Ngx3mhGi7RYa3jOzFQ4rczhuE6

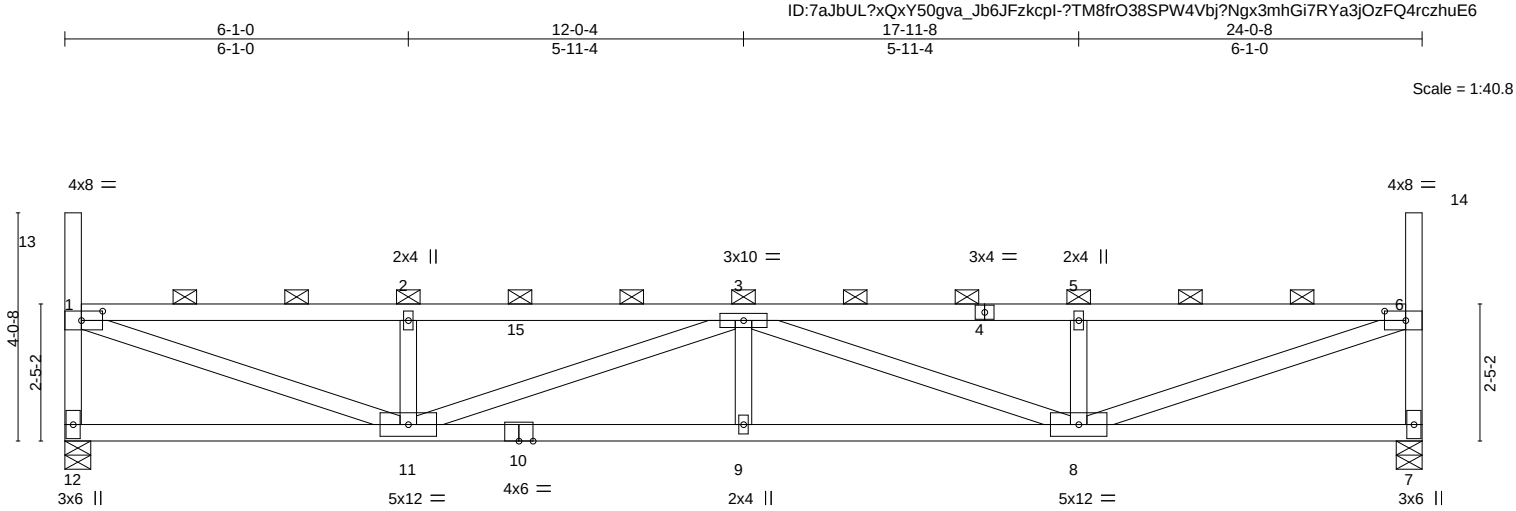


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	0.21	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.36	9-11	>790	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 96 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-4-14 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-9 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-211(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-947/561, 1-2=-2159/1161, 2-3=-2159/1161, 3-5=-2159/1159, 5-6=-2159/1159, 6-7=-947/562
BOT CHORD 11-12=-397/359, 9-11=-1587/2793, 8-9=-1587/2793
WEBS 1-11=-1215/2213, 2-11=-404/344, 3-11=-684/472, 3-8=-684/466, 5-8=-404/343, 6-8=-1218/2212

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B12	Flat	2	1	I50440416 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B13	Flat	2	1	I50440417
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:36 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-TfwWsBPhvmXNieAwY5CAczERHXlXJVbXCv9dN2zhuE5

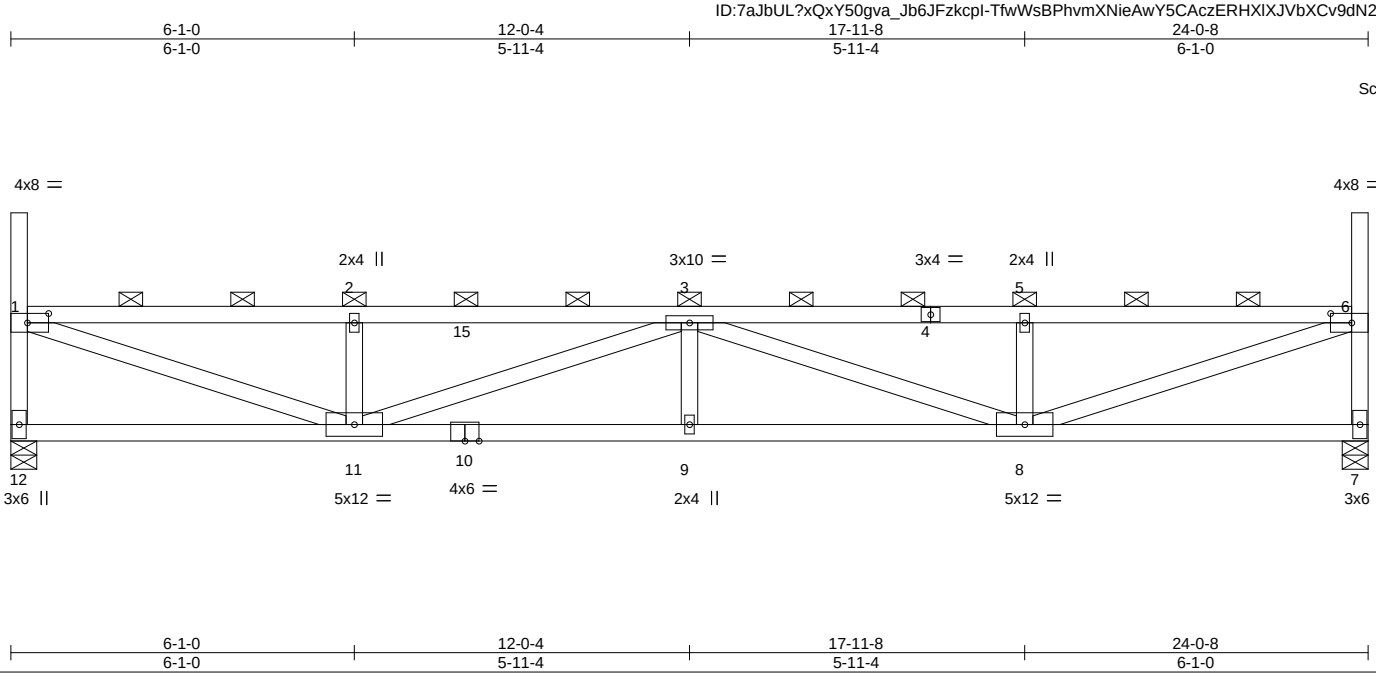


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.21	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.37	9-11	>762	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 96 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-4-6 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-6 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-213(LC 10)
Max Uplift 12=-15(LC 10), 7=-15(LC 11)
Max Grav 12=1009(LC 2), 7=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-947/503, 1-2=-2201/1103, 2-3=-2201/1103, 3-5=-2201/1102, 5-6=-2201/1102, 6-7=-947/504
BOT CHORD 11-12=-396/375, 9-11=-1546/2848, 8-9=-1546/2848
WEBS 1-11=-1161/2250, 2-11=-403/315, 3-11=-686/492, 3-8=-686/485, 5-8=-403/313, 6-8=-1165/2249

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=87, 6-7=34, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B13	Flat	2	1	I50440417 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-15=-28, 4=-29-to-6=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-15=4, 4=4-to-6=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B14	Flat	2	1	I50440418
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:37 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-xsTu4XPJg4fEKol66ojP8Bmcrx5V2xshQZvBvUzhuE4

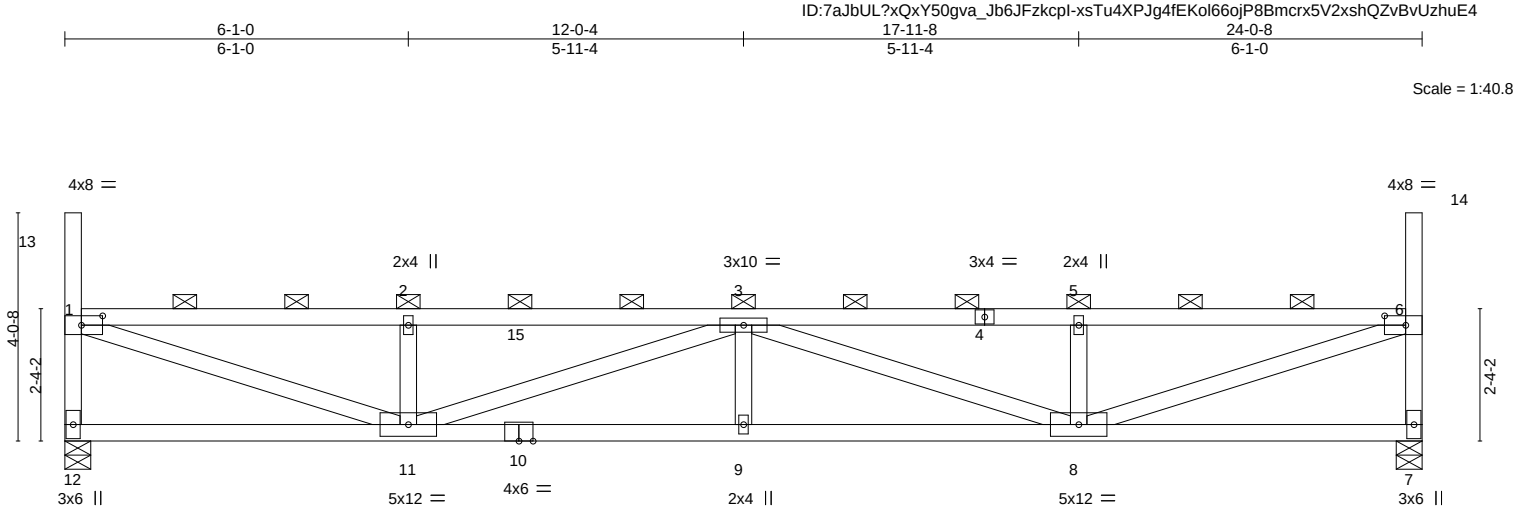


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.22	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.39	9-11	>734	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 96 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-3-13 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-6-9 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=215(LC 11)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-947/562, 1-2=-2245/1207, 2-3=-2245/1207, 3-5=-2244/1205, 5-6=-2244/1205, 6-7=-947/562
BOT CHORD 11-12=-413/373, 9-11=-1646/2905, 8-9=-1646/2905
WEBS 1-11=-1258/2288, 2-11=-403/344, 3-11=-709/491, 3-8=-709/485, 5-8=-403/342, 6-8=-1262/2288

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B14	Flat	2	1	I50440418 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B15	Flat	2	1	I50440419
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:39 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-tEbeUCRZChvyZ6uUEDltEcsx9kniWs__utOI_NzhuE2

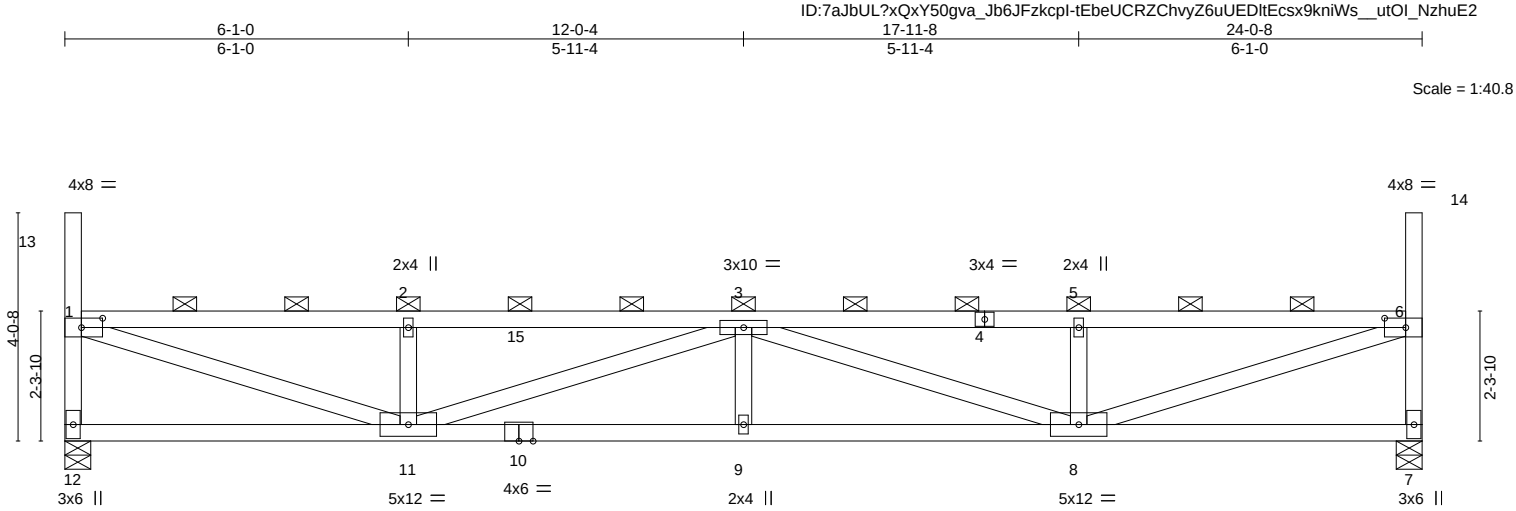


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.23	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.40	9-11	>707	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 96 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-3-4 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-5 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-217(LC 10)
Max Uplift 12=-15(LC 10), 7=-15(LC 11)
Max Grav 12=1009(LC 2), 7=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-947/504, 1-2=-2290/1148, 2-3=-2290/1148, 3-5=-2290/1146, 5-6=-2290/1146, 6-7=-947/504
BOT CHORD 11-12=-412/389, 9-11=-1605/2964, 8-9=-1605/2964
WEBS 1-11=-1203/2328, 2-11=-402/315, 3-11=-712/512, 3-8=-712/505, 5-8=-402/313, 6-8=-1207/2328

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B15	Flat	2	1	I50440419 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=87, 6-7=34, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B15	Flat	2	1	I50440419 Job Reference (optional)

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B15	Flat	2	1	I50440419 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-15=-28, 4=-29-to-6=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-15=4, 4=4-to-6=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B16	Flat	2	1	I50440420
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:40 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-LR90iYSBz?1pBGThnwG6mpO6i87fFID77X7rWpzhuE1

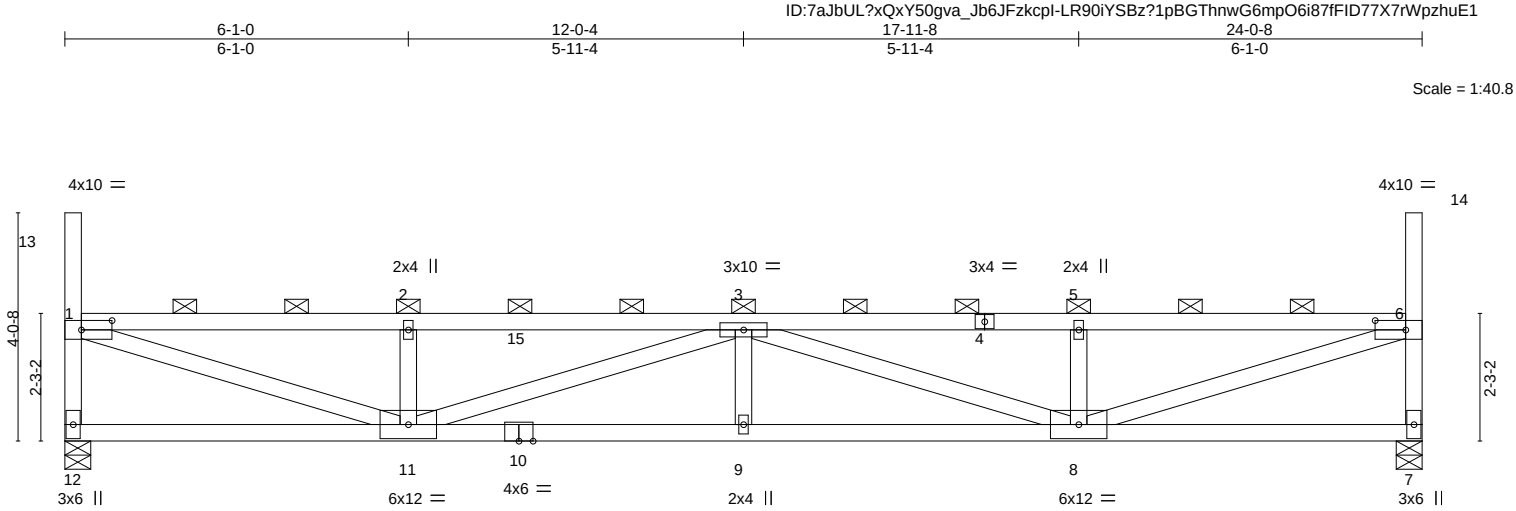


Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	0.24	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.42	9-11	>680	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 95 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-2-10 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-5-7 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-220(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-946/562, 1-2=-2337/1256, 2-3=-2337/1256, 3-5=-2337/1255, 5-6=-2337/1255, 6-7=-946/563
BOT CHORD 11-12=-430/387, 9-11=-1710/3026, 8-9=-1710/3026
WEBS 1-11=-1304/2370, 2-11=-402/344, 3-11=-736/512, 3-8=-736/505, 5-8=-402/342, 6-8=-1309/2370

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B16	Flat	2	1	I50440420 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B17	Flat	2	1	I50440421
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:41 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-pdjPvuSpkI9gpQ2tLenLJ1xHEYSb_lXGLBtO2FzhuE0

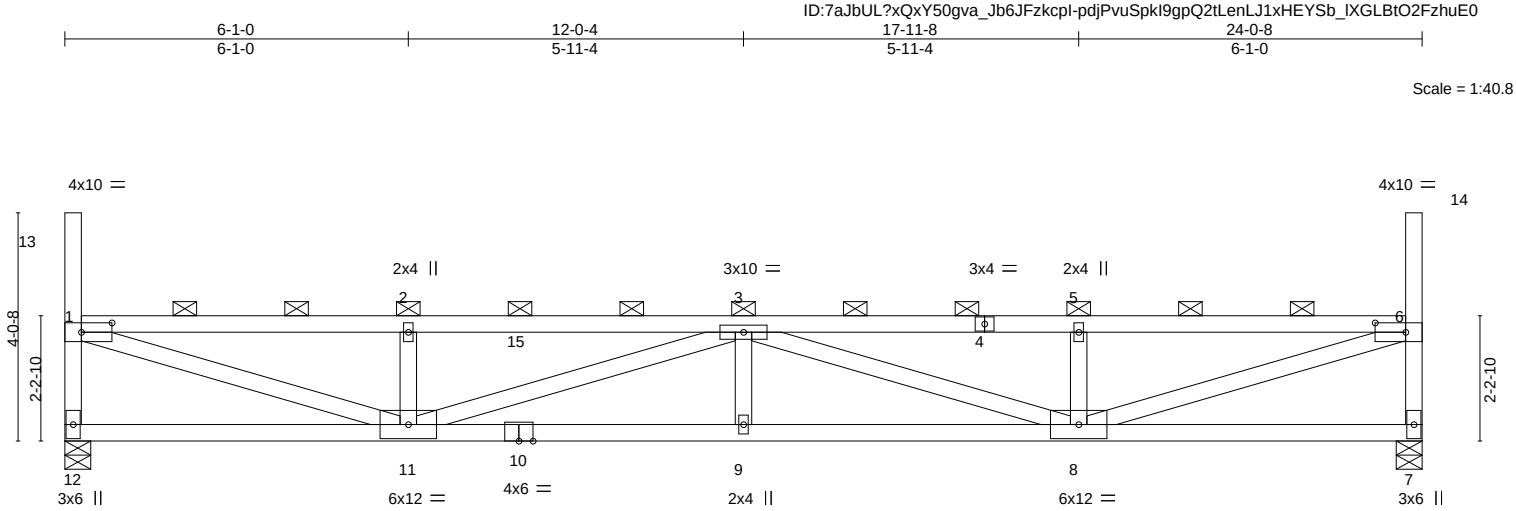


Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	0.25	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.44	9-11	>654	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 95 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-2-2 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-5-8 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-222(LC 10)
Max Uplift 12=-68(LC 10), 7=-22(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-946/556, 1-2=-2386/1263, 2-3=-2386/1263, 3-5=-2386/1215, 5-6=-2386/1215, 6-7=-946/511
BOT CHORD 11-12=-439/395, 9-11=-1706/3090, 8-9=-1706/3090
WEBS 1-11=-1308/2413, 2-11=-401/343, 3-11=-770/505, 3-8=-740/546, 5-8=-401/314, 6-8=-1275/2413

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B17	Flat	2	1	I50440421 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 4=-60-to-6=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 4=-50-to-6=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 7-12=-40
Trapezoidal Loads (plf)
Vert: 4=-20-to-6=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=54, 7-12=-12
Horz: 1-12=19, 1-13=87, 6-7=34, 6-14=55
Trapezoidal Loads (plf)
Vert: 4=53-to-6=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-87
Trapezoidal Loads (plf)
Vert: 4=53-to-6=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
Trapezoidal Loads (plf)
Vert: 4=-33-to-6=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
Trapezoidal Loads (plf)
Vert: 4=-33-to-6=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Trapezoidal Loads (plf)
Vert: 4=16-to-6=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Trapezoidal Loads (plf)
Vert: 4=16-to-6=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Trapezoidal Loads (plf)
Vert: 4=-4-to-6=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Trapezoidal Loads (plf)
Vert: 4=-4-to-6=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 4=16-to-6=1

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B17	Flat	2	1	I50440421 Job Reference (optional)

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 4=16-to-6=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 4=16-to-6=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 4=16-to-6=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 4=-4-to-6=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 4=-4-to-6=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 4=-20-to-6=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 4=-38-to-6=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 4=-38-to-6=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B17	Flat	2	1	I50440421 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 4=-38-to-6=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 4=-38-to-6=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
Trapezoidal Loads (plf)
Vert: 4=-29-to-6=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
Trapezoidal Loads (plf)
Vert: 4=4-to-6=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 4=-60-to-6=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 4=-60-to-6=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 4=-50-to-6=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 4=-50-to-6=-65

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B18	Flat	2	1	I50440422
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:42 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-HpHn7ETSVcHXQZd3vLJarEUSlynWjBIQarcybizhuE?

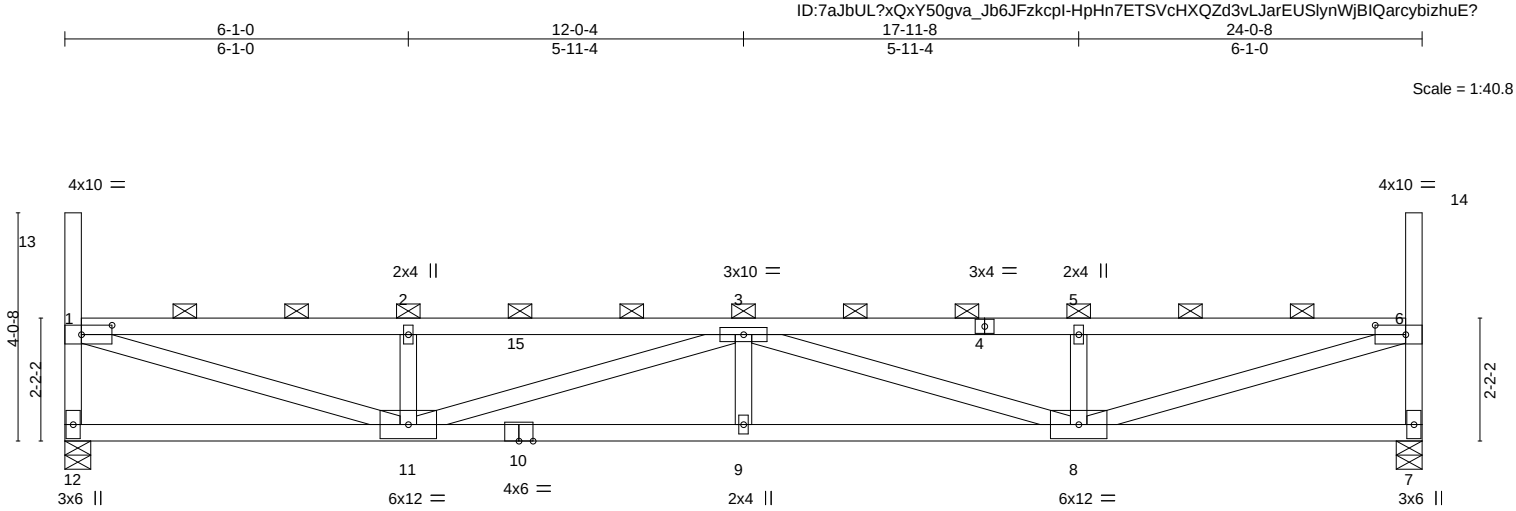


Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	0.26	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.45	9-11	>628	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 95 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-1-8 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-4-5 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-224(LC 10)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-945/562, 1-2=-2437/1310, 2-3=-2437/1310, 3-5=-2437/1308, 5-6=-2437/1308, 6-7=-945/563
BOT CHORD 11-12=-448/402, 9-11=-1779/3157, 8-9=-1779/3157
WEBS 1-11=-1355/2459, 2-11=-401/344, 3-11=-766/535, 3-8=-766/527, 5-8=-401/342, 6-8=-1360/2459

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B18	Flat	2	1	I50440422 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B19	Flat	2	1	I50440423
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:43 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-m0r9KaU4GwPO2jCGT3qpOS0cEL7RSeIZpVMV78zhuE_

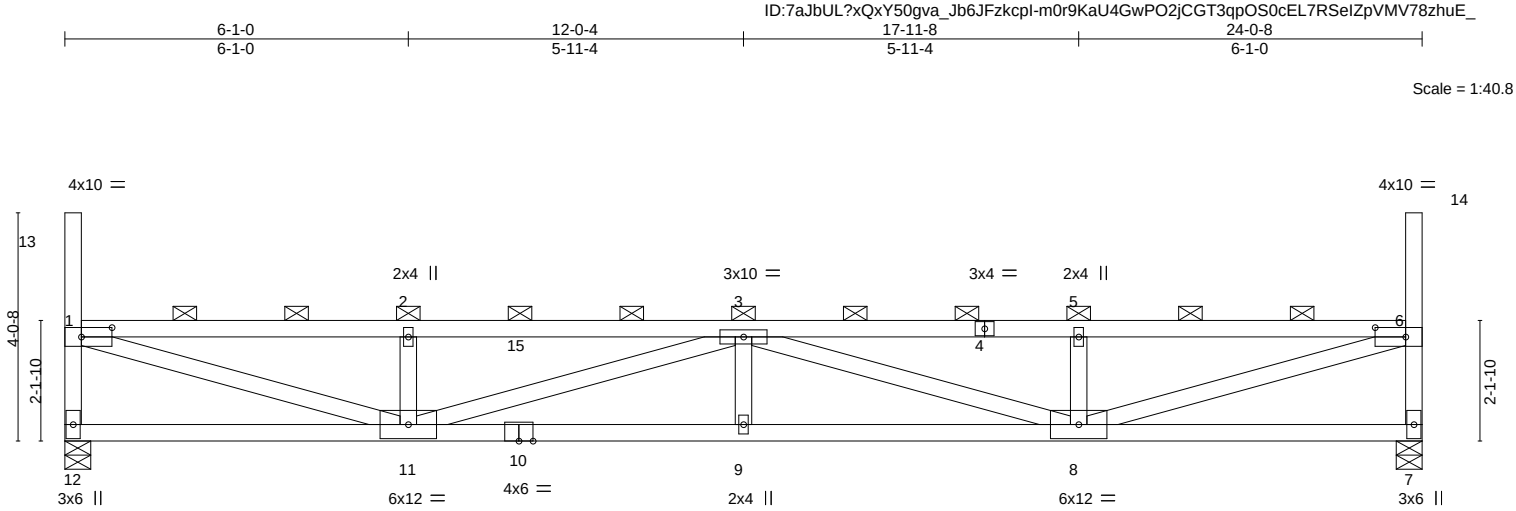


Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	0.27	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.47	9-11	>602	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 95 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-0-14 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-3-13 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-226(LC 12)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-945/563, 1-2=-2490/1339, 2-3=-2490/1339, 3-5=-2490/1337, 5-6=-2490/1337, 6-7=-945/563
BOT CHORD 11-12=-457/410, 9-11=-1815/3227, 8-9=-1815/3227
WEBS 1-11=-1382/2506, 2-11=-400/344, 3-11=-783/547, 3-8=-783/539, 5-8=-400/342, 6-8=-1387/2506

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B19	Flat	2	1	I50440423 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B20	Flat	2	1	I50440424
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:44 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-ECOXYwVi1DYFgtnS0mL2xfZnilSKB5lj1952eazhuDz

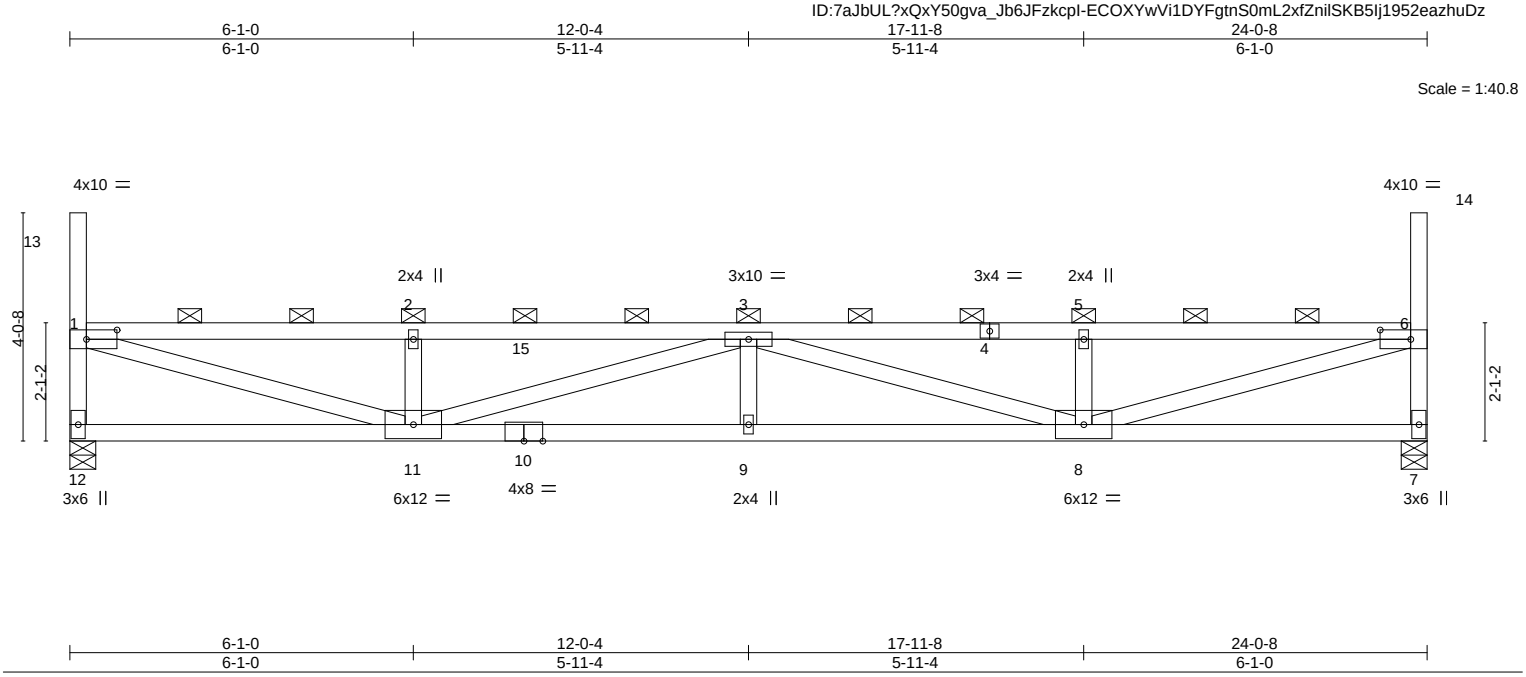


Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	0.28	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.49	9	>577	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 95 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-0-3 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-3-3 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-228(LC 12)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-944/563, 1-2=-2546/1369, 2-3=-2546/1369, 3-5=-2546/1367, 5-6=-2546/1367, 6-7=-944/564
BOT CHORD 11-12=-467/418, 9-11=-1853/3300, 8-9=-1853/3300
WEBS 1-11=-1410/2556, 2-11=-400/343, 3-11=-800/560, 3-8=-800/551, 5-8=-400/341, 6-8=-1415/2556

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B20	Flat	2	1	I50440424 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

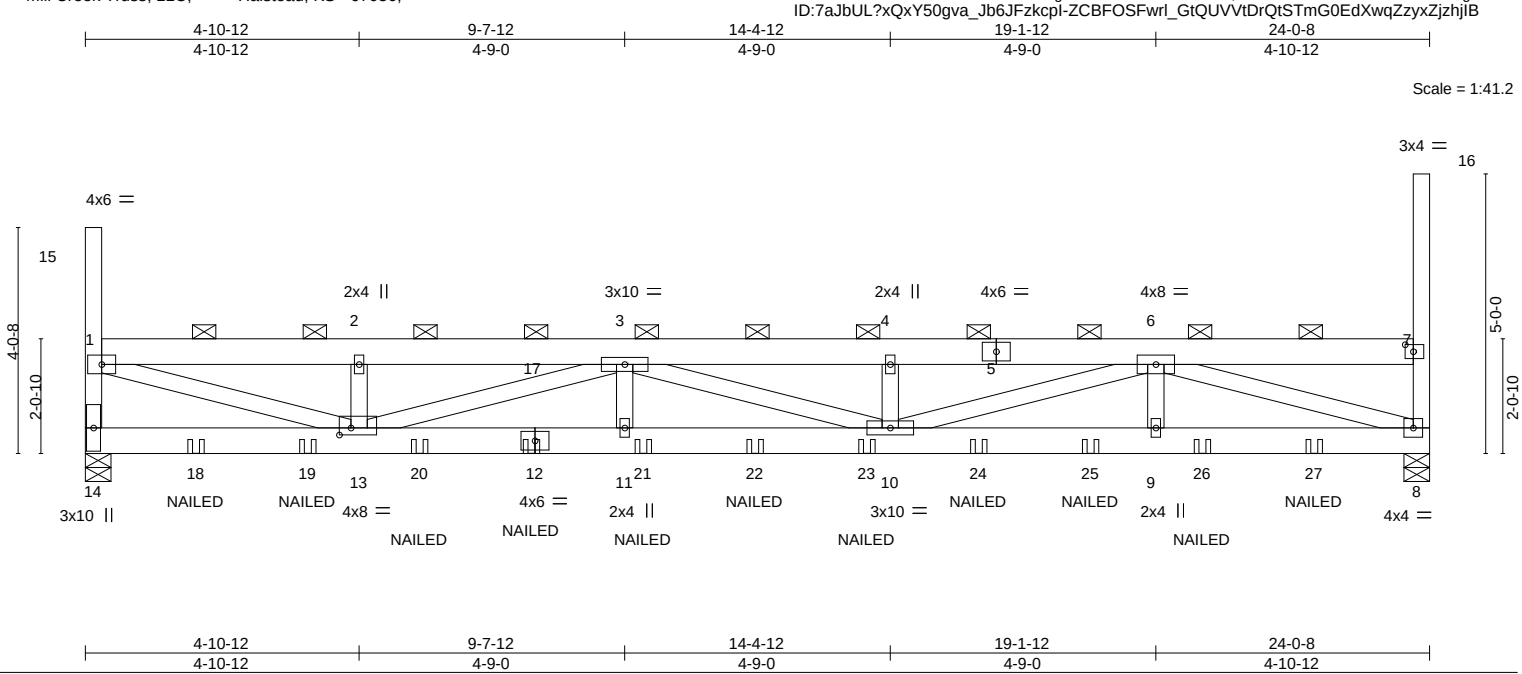
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	B21	FLAT GIRDER	2	2	I50440425
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:42:10 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-ZCBFOSFwrl_GtQUVVtDrQtSTmG0EdXwqZzyxZjzhjIB



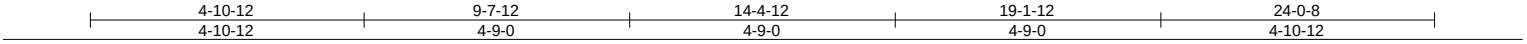


Plate Offsets (X,Y)-- [7:0-1-12,0-1-8], [13:0-2-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	0.27	10-11	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.25	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	-0.04	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 252 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-3 oc bracing.

REACTIONS. (lb/size) 14=1340/0-5-8, 8=1338/0-5-8
Max Horz 14=280(LC 11)
Max Uplift 14=-1010(LC 10), 8=-888(LC 11)
Max Grav 14=1368(LC 29), 8=1367(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1239/898, 1-2=-3252/2627, 2-17=-3252/2627, 3-17=-3252/2627, 3-4=-4825/3840, 4-5=-4825/3840, 5-6=-4825/3840, 6-7=-400/376
BOT CHORD 14-18=-562/453, 18-19=-562/453, 13-19=-562/453, 13-20=-3828/4826, 12-20=-3828/4826, 11-12=-3828/4826, 11-21=-3828/4826, 21-22=-3828/4826, 22-23=-3828/4826, 10-23=-3828/4826, 10-24=-2447/3257, 24-25=-2447/3257, 9-25=-2447/3257, 9-26=-2447/3257, 26-27=-2447/3257, 8-27=-2447/3257
WEBS 1-13=-2542/3256, 2-13=-286/282, 3-13=-1661/1383, 3-11=-342/246, 4-10=-279/272, 6-10=-1506/1654, 6-9=-277/253, 6-8=-3264/2420

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1010 lb uplift at joint 14 and 888 lb uplift at joint 8.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	B21	FLAT GIRDER	2	2	I50440425 Job Reference (optional)

NOTES-

11) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 5-17=-58, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-65(B) 18=-65(B) 19=-65(B) 20=-65(B) 21=-65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65(B) 26=-65(B) 27=-65(B)
   Trapezoidal Loads (plf)
   Vert: 1=-73-to-17=-58, 5=-58-to-7=-73
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 5-17=-48, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-54(B) 18=-54(B) 19=-54(B) 20=-54(B) 21=-54(B) 22=-54(B) 23=-54(B) 24=-54(B) 25=-54(B) 26=-54(B) 27=-57(B)
   Trapezoidal Loads (plf)
   Vert: 1=-60-to-17=-48, 5=-49-to-7=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 5-17=-36, 8-14=-20
   Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
   Concentrated Loads (lb)
   Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=-92(B)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 5-17=-36, 8-14=-20
   Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
   Concentrated Loads (lb)
   Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=-61(B)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 5-17=-36, 8-14=-20
   Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
   Concentrated Loads (lb)
   Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=-82(B)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 5-17=-36, 8-14=-20
   Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
   Concentrated Loads (lb)
   Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=-82(B)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 5-17=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-65(B) 18=-65(B) 19=-65(B) 20=-65(B) 21=-65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65(B) 26=-65(B) 27=-67(B)
   Trapezoidal Loads (plf)
   Vert: 1=-75-to-17=-60, 5=-60-to-7=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

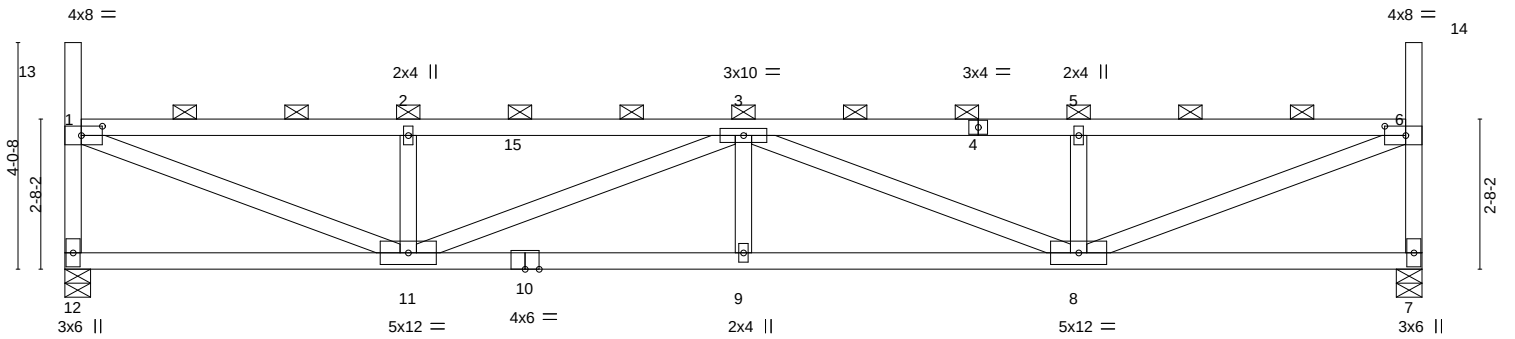
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B22	Flat	3	1	I50440426
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:48 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-6ze2NHYC4S2g8U4DFcP_5VjV_Muk7xalyn3GnLzhuDv

6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Scale = 1:41.1



6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	0.17	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.30	9-11	>946	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 98 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-7-5 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-7 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-198(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-955/560, 1-2=-1964/1050, 2-3=-1964/1050, 3-5=-1964/1049, 5-6=-1964/1049, 6-7=-955/560
BOT CHORD 11-12=-354/320, 9-11=-1443/2538, 8-9=-1443/2538
WEBS 1-11=-1111/2043, 2-11=-408/345, 3-11=-628/424, 3-8=-628/419, 5-8=-408/344, 6-8=-1114/2043

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B22	Flat	3	1	I50440426 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B23	Flat	3	1	I50440427
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:49 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-aACQbdZrrmAXmefPpJxDdjGfcmDmsOhSBRppJozhuDu

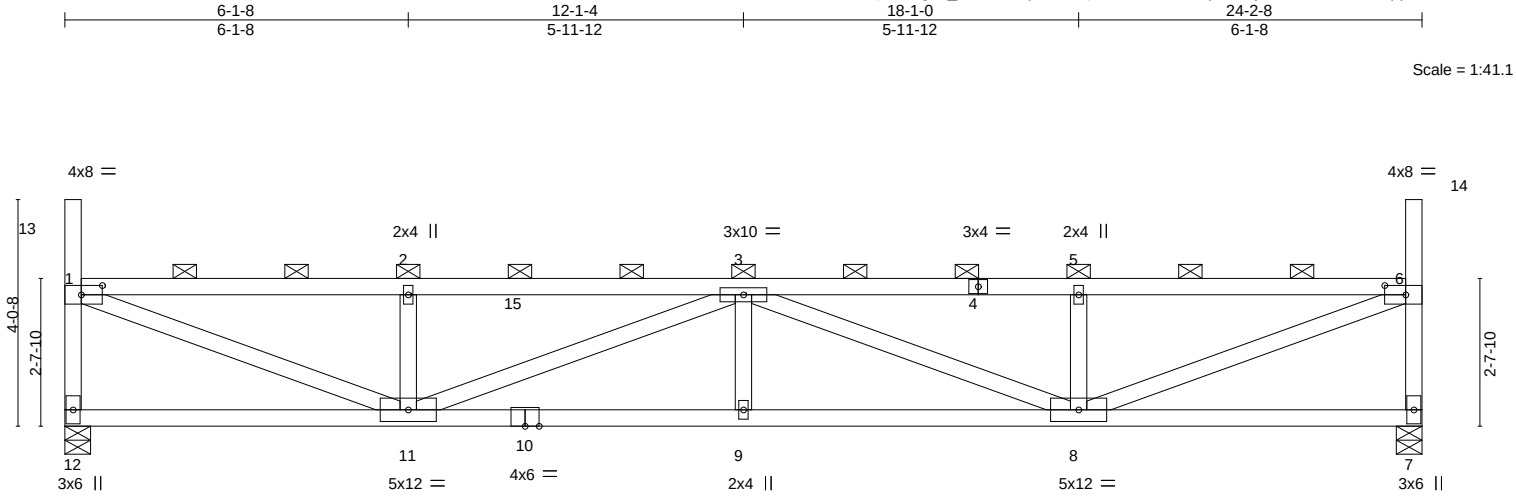


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.18	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.31	9-11	>917	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 98 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-6-13 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-15 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=200(LC 11)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-955/560, 1-2=-1998/1069, 2-3=-1998/1069, 3-5=-1998/1067, 5-6=-1998/1067, 6-7=-955/561
BOT CHORD 11-12=-361/326, 9-11=-1467/2582, 8-9=-1467/2582
WEBS 1-11=-1128/2073, 2-11=-408/345, 3-11=-637/432, 3-8=-637/427, 5-8=-408/344, 6-8=-1131/2073

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B23	Flat	3	1	I50440427 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B24	Flat	3	1	I50440428
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:51 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-XYKB0Ja5NNQF?ypoxkzhj8L?zau1KI2leIlwOgzhuDs

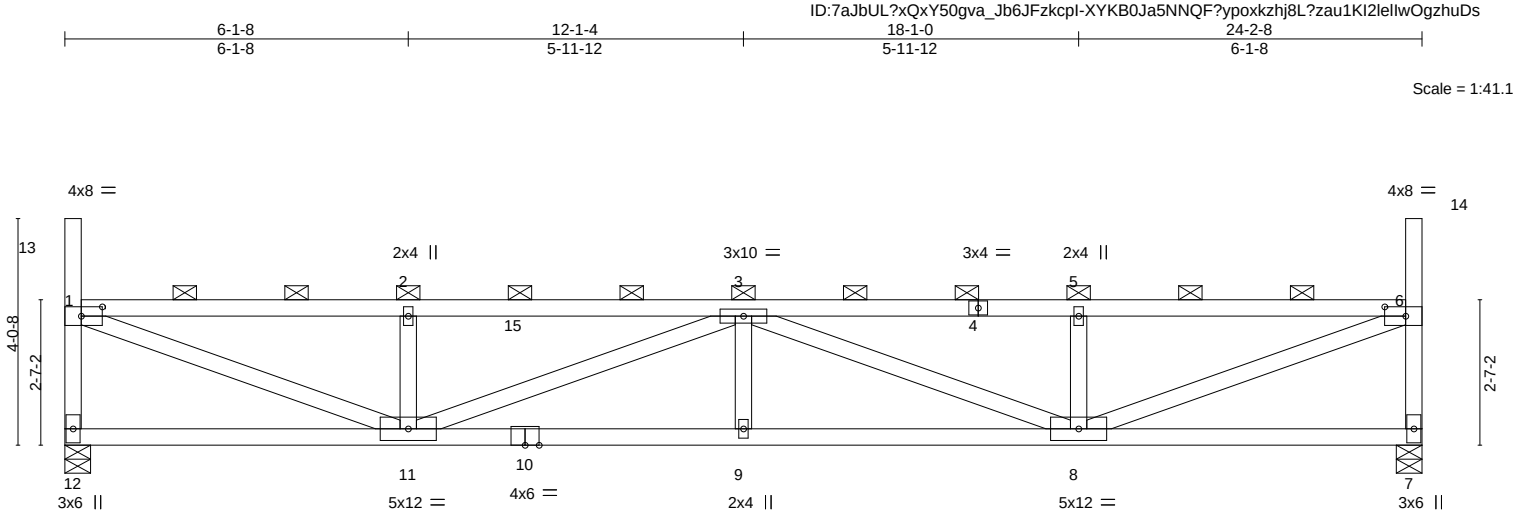


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0		Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.18	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0		Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.32	9-11	>888	180		
TCDL	10.0		Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0	*	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-6-5 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-7 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-202(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-955/561, 1-2=-2034/1088, 2-3=-2034/1088, 3-5=-2034/1086, 5-6=-2034/1086, 6-7=-955/561
BOT CHORD 11-12=-367/332, 9-11=-1492/2629, 8-9=-1492/2629
WEBS 1-11=-1146/2104, 2-11=-408/345, 3-11=-648/439, 3-8=-648/435, 5-8=-408/344, 6-8=-1149/2104

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B24	Flat	3	1	I50440428 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B25	Flat	3	1	I50440429
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:52 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-?ktZDfbj8hY6d6O_USUwFLuAa_E23l8utP1Uw7zhuDr

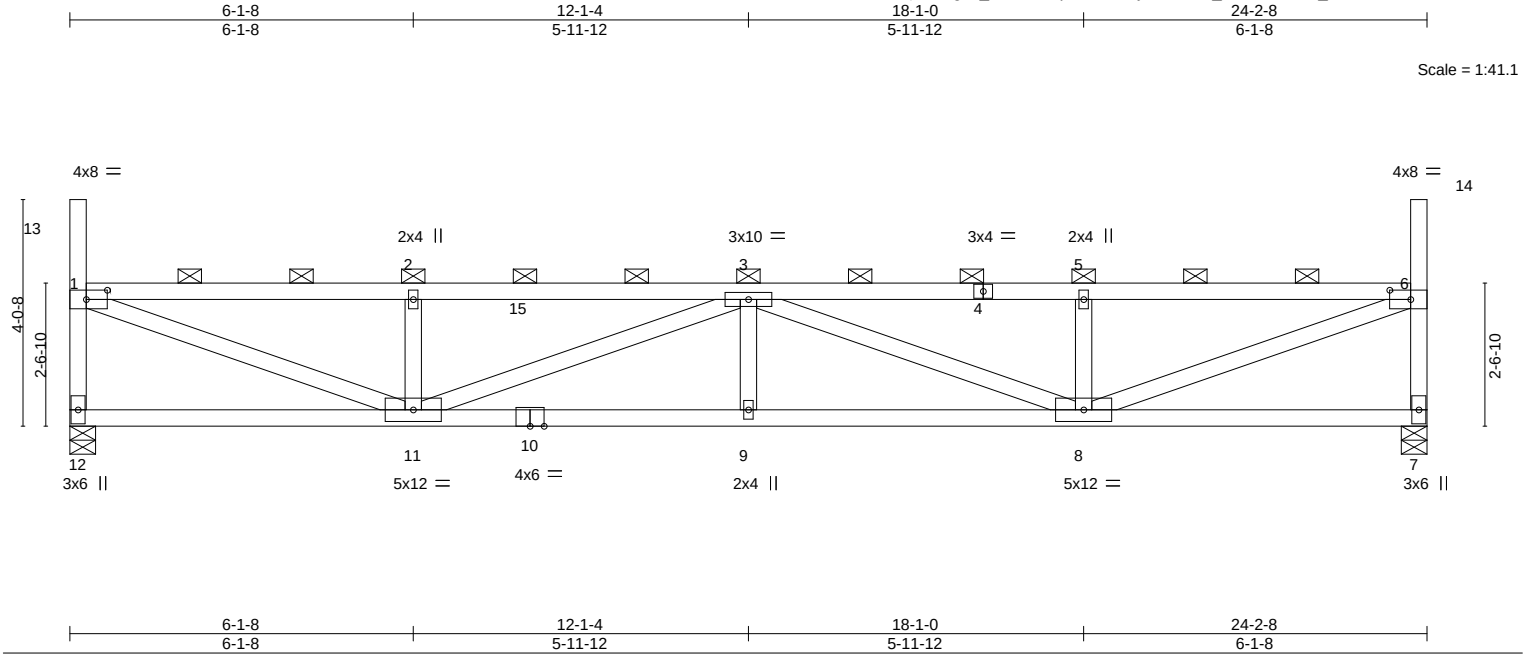


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.19	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.33	9-11	>859	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-5-14 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-15 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-204(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-955/561, 1-2=-2070/1107, 2-3=-2070/1107, 3-5=-2070/1106, 5-6=-2070/1106, 6-7=-955/561
BOT CHORD 11-12=-375/339, 9-11=-1518/2677, 8-9=-1518/2677
WEBS 1-11=-1165/2137, 2-11=-407/345, 3-11=-658/448, 3-8=-658/443, 5-8=-407/344, 6-8=-1168/2137

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B25	Flat	3	1	I50440429 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

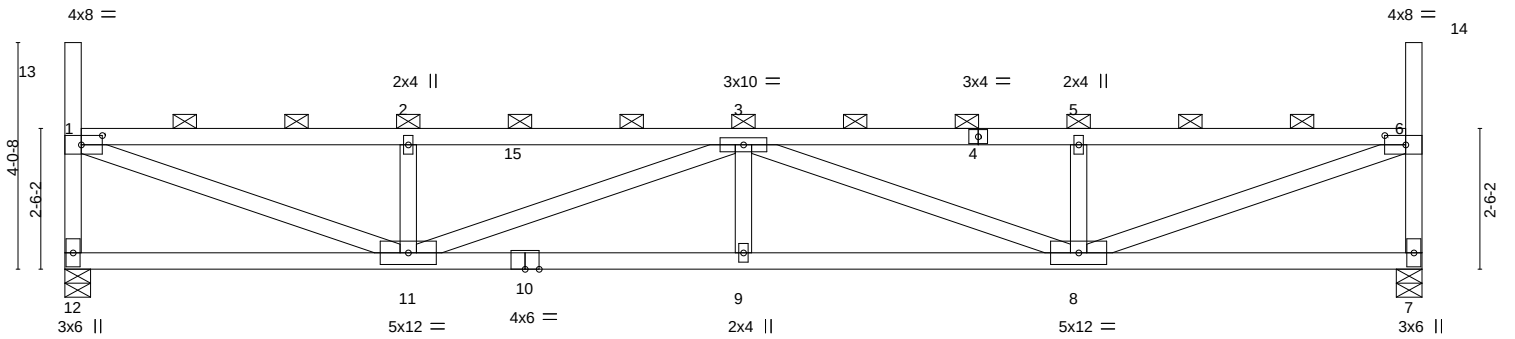
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B26	Flat	3	1	I50440430
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:53 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-TxRxQ?cLv_gzFGzB29?9oZRLBNa3oCF163n1SZzhuDq

6-1-8	12-1-4	18-1-0	24-2-8
6-1-8	5-11-12	5-11-12	6-1-8

Scale = 1:41.1



6-1-8	12-1-4	18-1-0	24-2-8
6-1-8	5-11-12	5-11-12	6-1-8

Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	0.20	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.35	9-11	>830	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-5-6 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-6 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-206(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-954/561, 1-2=-2108/1128, 2-3=-2108/1128, 3-5=-2108/1126, 5-6=-2108/1126, 6-7=-954/562
BOT CHORD 11-12=-382/345, 9-11=-1544/2726, 8-9=-1544/2726
WEBS 1-11=-1184/2170, 2-11=-407/345, 3-11=-669/456, 3-8=-669/451, 5-8=-407/344, 6-8=-1187/2170

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B26	Flat	3	1	I50440430 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B27	Flat	3	1	I50440431
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:54 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-x7?JeLczgIoqsPYNcsWOKmzWnnw3XdKBLjWa??zhuDp

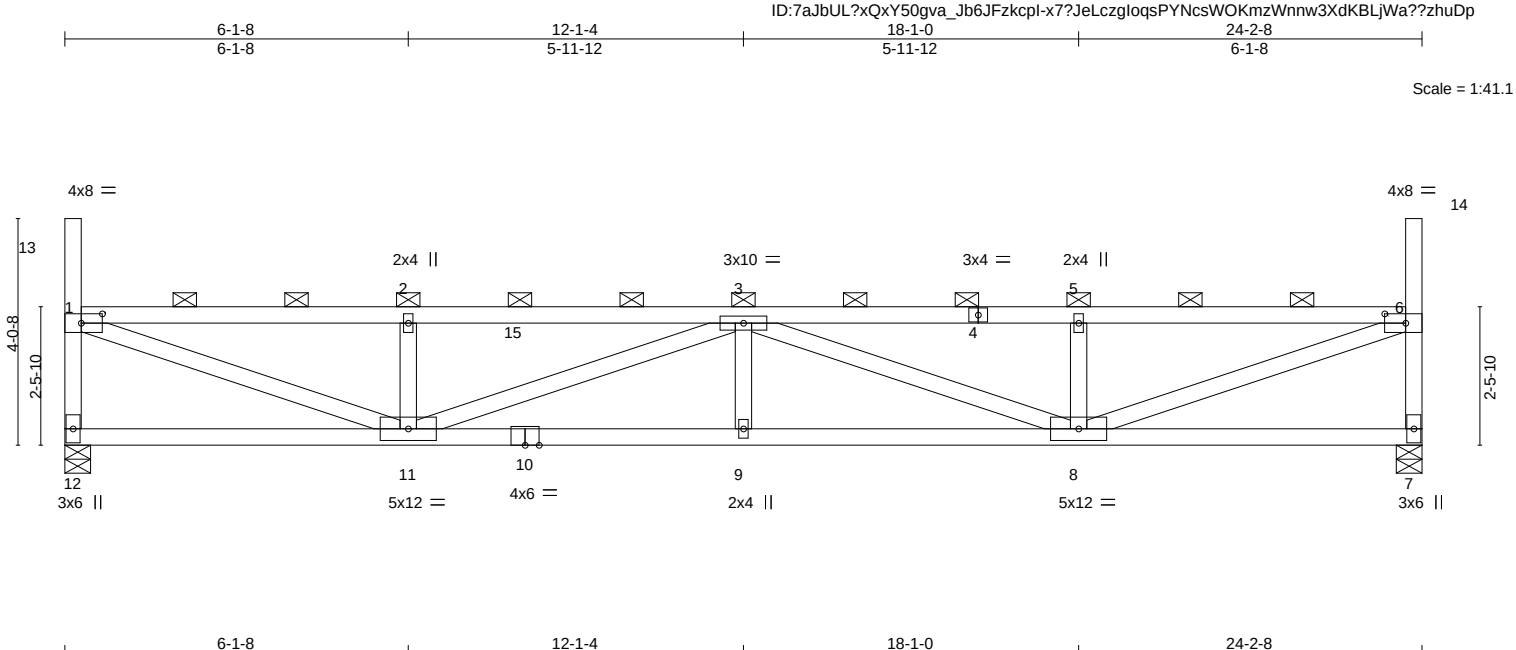


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.20	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.36	9-11	>802	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-4-13 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-14 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-209(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-954/562, 1-2=-2148/1149, 2-3=-2148/1149, 3-5=-2148/1147, 5-6=-2148/1147, 6-7=-954/562
BOT CHORD 11-12=-389/351, 9-11=-1572/2778, 8-9=-1572/2778
WEBS 1-11=-1203/2205, 2-11=-407/345, 3-11=-681/465, 3-8=-681/460, 5-8=-407/344, 6-8=-1207/2205

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B27	Flat	3	1	I50440431 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

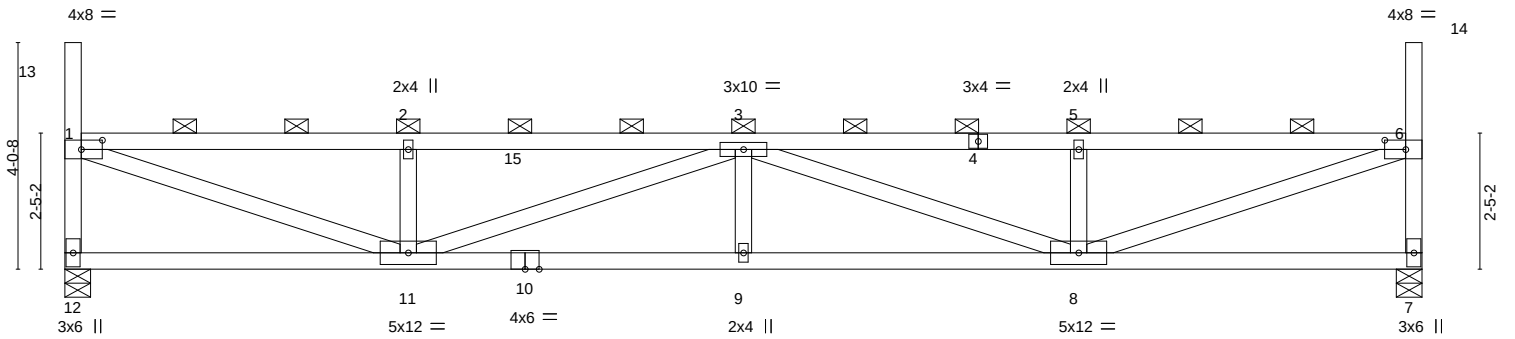
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B28	Flat	3	1	I50440432
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:55 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-PJZhrhdbRcwhUZ7ZAa1dt_WhNBE1G4QKZNG8XRzhuDo

6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Scale = 1:41.1



6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.21	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.37	9-11	>774	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-4-6 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-6 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=211(LC 11)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-954/562, 1-2=-2189/1171, 2-3=-2189/1171, 3-5=-2189/1169, 5-6=-2189/1169, 6-7=-954/562
BOT CHORD 11-12=-397/358, 9-11=-1600/2831, 8-9=-1600/2831
WEBS 1-11=-1224/2241, 2-11=-406/345, 3-11=-693/474, 3-8=-693/469, 5-8=-406/344, 6-8=-1227/2241

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B28	Flat	3	1	I50440432 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B29	Flat	3	1	I50440433
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:56 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-tW7430eECv2Y6jimjHZsQB3rxba0?XTUo1?h3uzhuDn

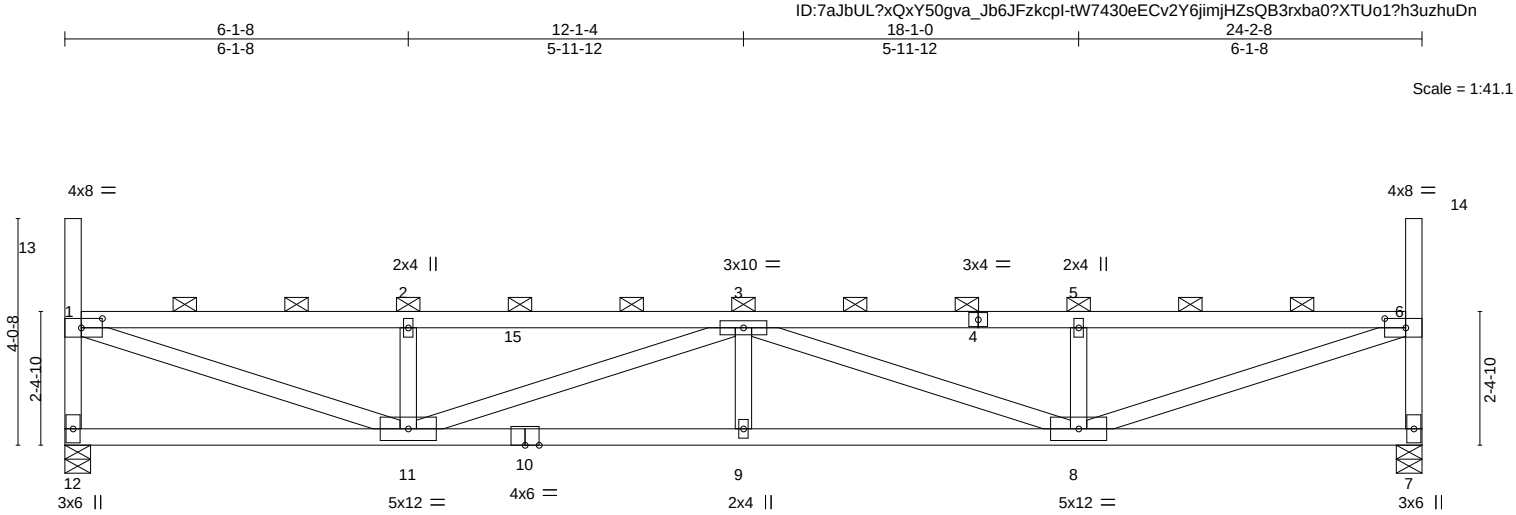


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0		Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.22	9	>999	240	MT20	197/144
Snow (Pf/Pg)	0.0/20.0	+	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.38	9-11	>747	180		
TCDL	10.0		Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0	*	Code	IBC2018/TPI2014	Matrix-MS							Weight: 96 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-3-13 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-6-13 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-213(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-953/562, 1-2=-2231/1193, 2-3=-2231/1193, 3-5=-2231/1192, 5-6=-2231/1192, 6-7=-953/563
BOT CHORD 11-12=-405/365, 9-11=-1629/2887, 8-9=-1629/2887
WEBS 1-11=-1245/2278, 2-11=-406/345, 3-11=-705/484, 3-8=-705/478, 5-8=-406/344, 6-8=-1249/2278

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=0.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) A + following a basic load indicates that the load has been modified in one or more load cases.
10) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard Except:
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B29	Flat	3	1	I50440433 Job Reference (optional)

LOAD CASE(S) Standard Except:

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 4-6=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 4-6=-47, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 4-6=-47, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 4-6=-47, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 4-6=-47, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

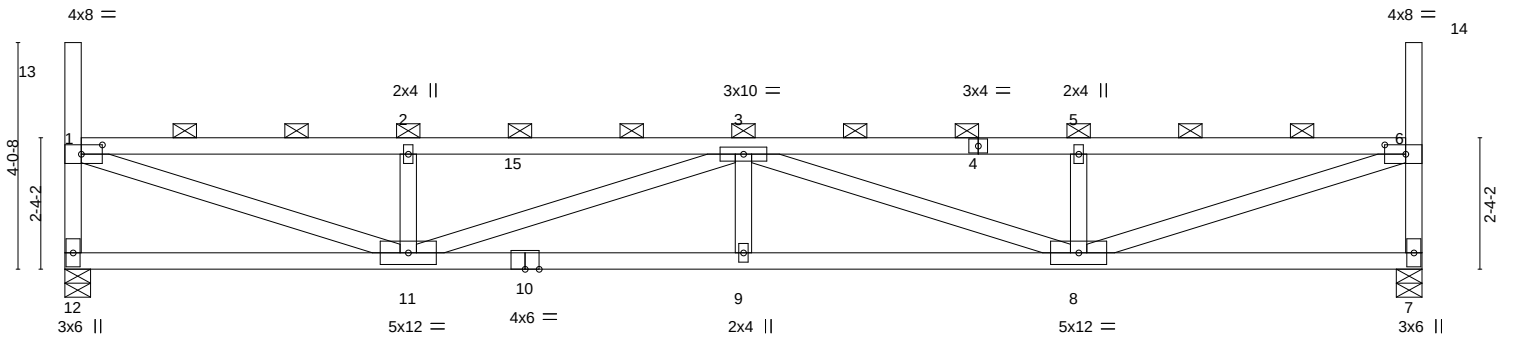
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B30	Flat	3	1	I50440434
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:58 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-puFqUigUkXIGL1r8ribKVc8BFOGETRnnFKUo8mzhuDl

6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Scale = 1:41.1



6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.23	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.40	9-11	>720	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 96 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-3-4 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-6-5 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-215(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-953/562, 1-2=-2275/1217, 2-3=-2275/1217, 3-5=-2275/1215, 5-6=-2275/1215, 6-7=-953/563
BOT CHORD 11-12=-413/371, 9-11=-1660/2945, 8-9=-1660/2945
WEBS 1-11=-1267/2318, 2-11=-405/345, 3-11=-718/494, 3-8=-718/487, 5-8=-405/343, 6-8=-1271/2318

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B30	Flat	3	1	I50440434 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

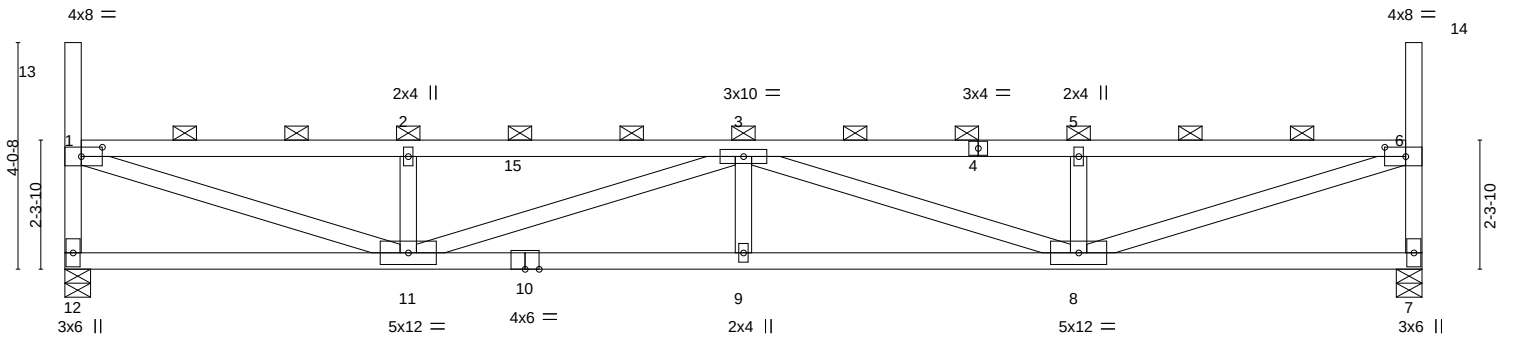
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B31	Flat	3	1	I50440435
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:59 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-I5oCh2g6UqR7zBQKPQ6Z1qhMoocBCvgwU_ELgDzhuDk

6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Scale = 1:41.1



6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	0.24	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.41	9-11	>693	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 96 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-2-11 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-0 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-217(LC 10)
Max Uplift 12=-16(LC 10), 7=-16(LC 11)
Max Grav 12=1016(LC 2), 7=1016(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-953/504, 1-2=-2321/1158, 2-3=-2321/1158, 3-5=-2321/1157, 5-6=-2321/1157, 6-7=-953/505
BOT CHORD 11-12=-412/388, 9-11=-1618/3005, 8-9=-1618/3005
WEBS 1-11=-1213/2358, 2-11=-405/316, 3-11=-721/515, 3-8=-721/508, 5-8=-405/314, 6-8=-1217/2358

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-48-to-6=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=86, 6-7=34, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=54-to-6=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-86
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=54-to-6=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B31	Flat	3	1	I50440435 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-15=-28, 4=-28-to-6=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-15=4, 4=4-to-6=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

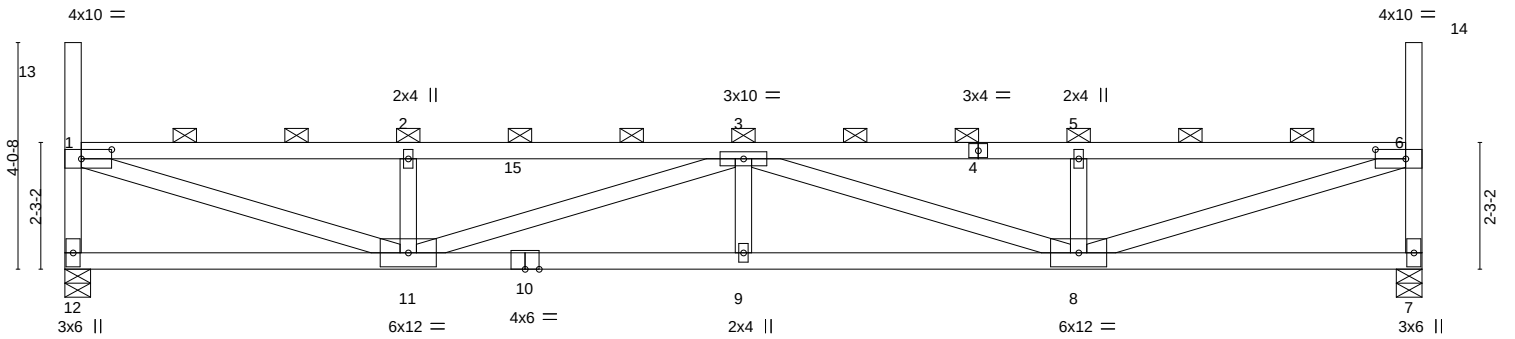
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B32	Flat	3	1	I50440436
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:00 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-mHMauOhkF8ZzaK?Xy7doa1DXLCx8xLu3jezvCfzhuDj

6-1-8	12-1-4	18-1-0	24-2-8
6-1-8	5-11-12	5-11-12	6-1-8

Scale = 1:41.1



6-1-8	12-1-4	18-1-0	24-2-8
6-1-8	5-11-12	5-11-12	6-1-8

Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	0.24	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.43	9-11	>667	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 96 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-2-2 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-5-4 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-220(LC 12)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-952/563, 1-2=-2369/1267, 2-3=-2369/1267, 3-5=-2369/1265, 5-6=-2369/1265, 6-7=-952/564
BOT CHORD 11-12=-430/386, 9-11=-1724/3067, 8-9=-1724/3067
WEBS 1-11=-1314/2401, 2-11=-404/345, 3-11=-746/515, 3-8=-746/508, 5-8=-404/343, 6-8=-1319/2401

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

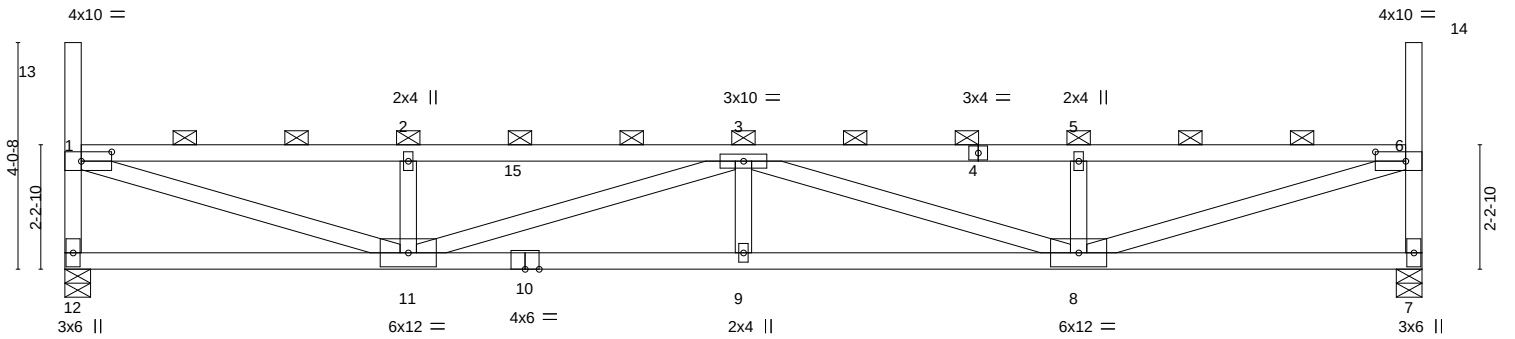
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B33	Flat	3	1	I50440437
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:01 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-ETwz6kiM0ShqCUajWr817FmiscH3gnwDyIjSk5zhuDi

6-1-8	12-1-4	18-1-0	24-2-8
6-1-8	5-11-12	5-11-12	6-1-8

Scale = 1:41.1



6-1-8	12-1-4	18-1-0	24-2-8
6-1-8	5-11-12	5-11-12	6-1-8

Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	0.25	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.45	9-11	>641	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 96 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-1-9 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-4-10 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-222(LC 10)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-952/563, 1-2=-2419/1294, 2-3=-2419/1294, 3-5=-2419/1292, 5-6=-2419/1292, 6-7=-952/564
BOT CHORD 11-12=-439/393, 9-11=-1758/3132, 8-9=-1758/3132
WEBS 1-11=-1339/2445, 2-11=-404/345, 3-11=-761/526, 3-8=-761/519, 5-8=-404/343, 6-8=-1344/2445

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B33	Flat	3	1	I50440437 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B34	Flat	3	1	I50440438
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:02 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-igULJ4j_nlphqe9v4YfGfSJsM0c_PExMAyS?HYzhuDh

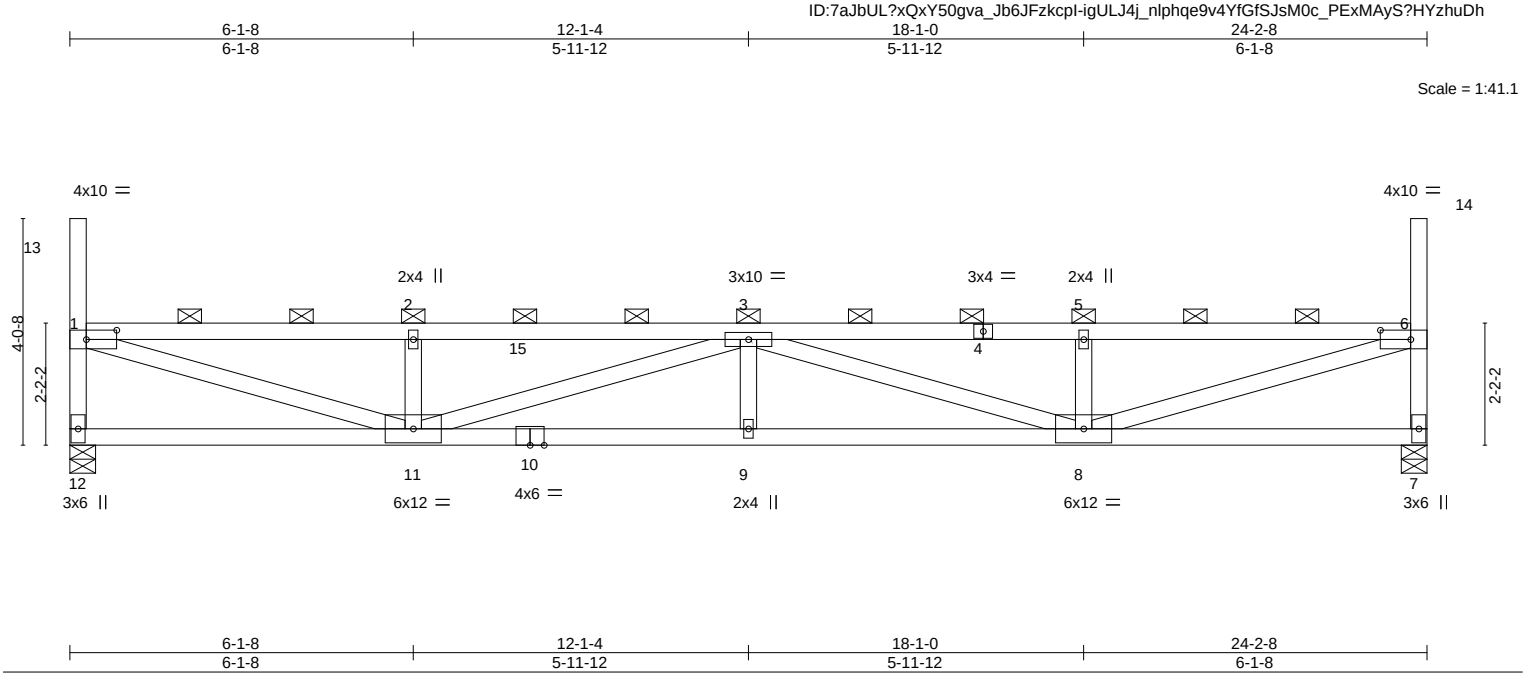


Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	0.27	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.47	9-11	>615	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 95 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-0-14 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-4-1 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-224(LC 10)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-952/563, 1-2=-2470/1321, 2-3=-2470/1321, 3-5=-2470/1319, 5-6=-2470/1319, 6-7=-952/564
BOT CHORD 11-12=-448/401, 9-11=-1793/3200, 8-9=-1793/3200
WEBS 1-11=-1365/2491, 2-11=-403/345, 3-11=-777/538, 3-8=-777/530, 5-8=-403/343, 6-8=-1370/2491

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B34	Flat	3	1	I50440438 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B35	Flat	3	1	I50440439
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:04 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-e2c5klkFJN3P3yJIBzikktOBapH7t8CfeGx6LQzhuDf

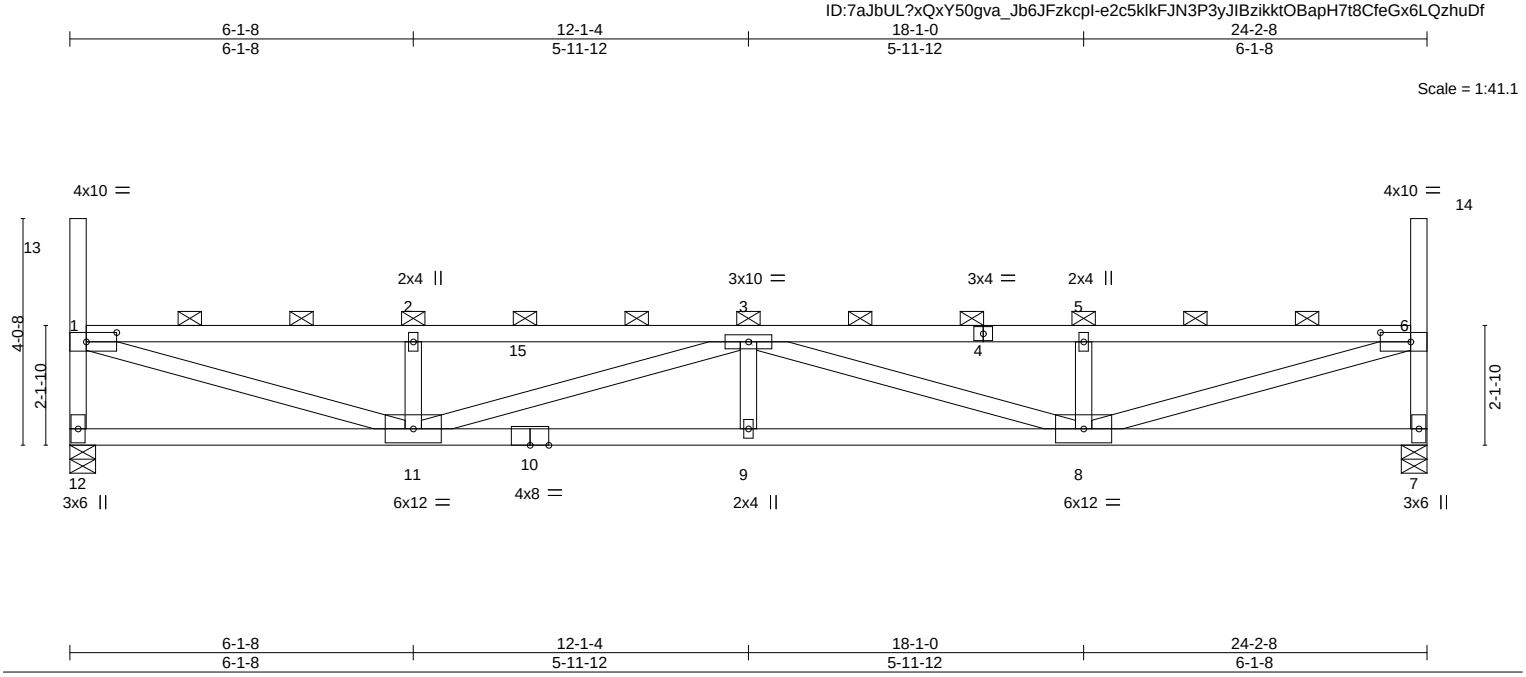


Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.28	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.49	9-11	>590	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 95 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-0-4 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-3-9 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-226(LC 10)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-951/563, 1-2=-2524/1350, 2-3=-2524/1350, 3-5=-2524/1348, 5-6=-2524/1348, 6-7=-951/564
BOT CHORD 11-12=-457/409, 9-11=-1830/3271, 8-9=-1830/3271
WEBS 1-11=-1392/2539, 2-11=-403/345, 3-11=-793/550, 3-8=-793/542, 5-8=-403/343, 6-8=-1398/2539

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B35	Flat	3	1	I50440439 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B36	Flat	3	1	I50440440
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:05 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-6FATy5lt4gBGh6uUlgDzH5wM2Dd0cbCotwhguszhuDe

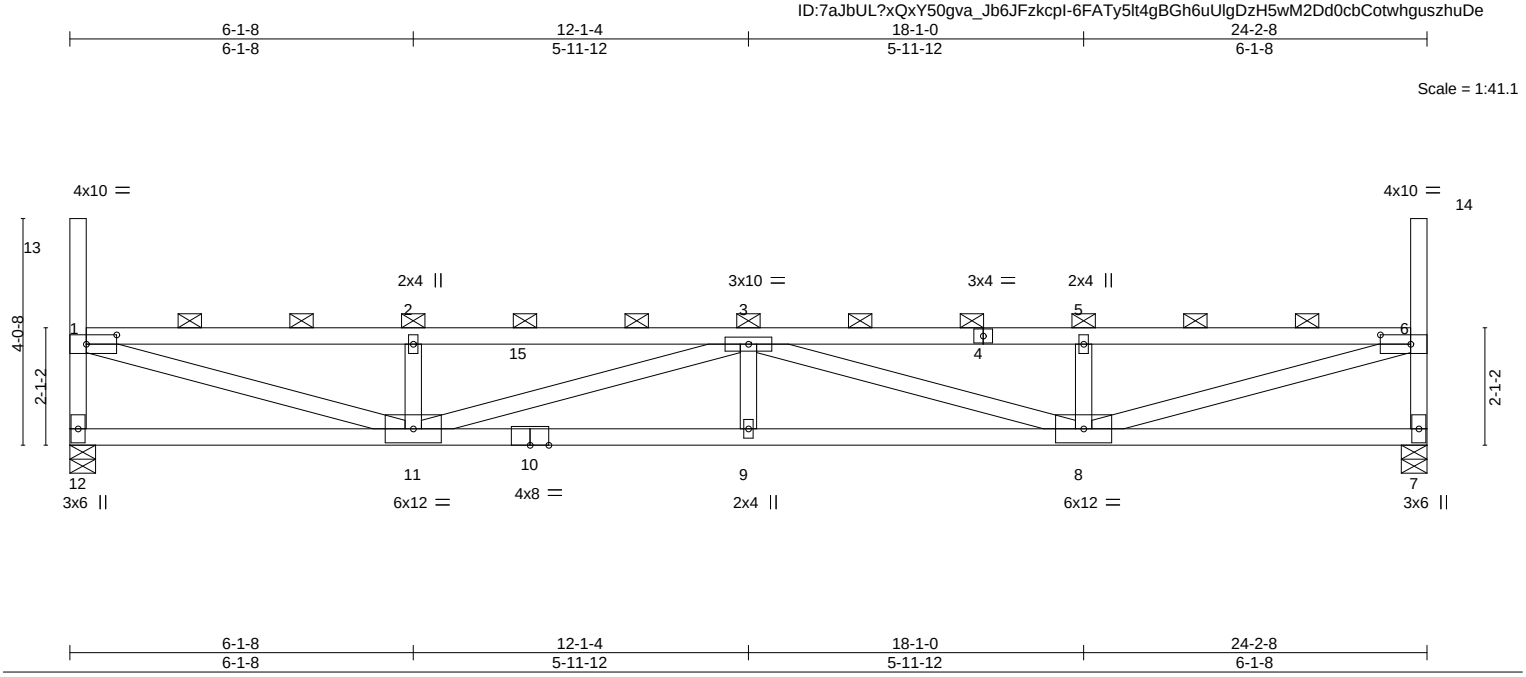


Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	0.29	9	>994	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.51	9	>565	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 95 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (2-11-9 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-3-0 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-228(LC 10)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-951/564, 1-2=-2581/1381, 2-3=-2581/1381, 3-5=-2581/1378, 5-6=-2581/1378, 6-7=-951/564
BOT CHORD 11-12=-467/417, 9-11=-1868/3346, 8-9=-1868/3346
WEBS 1-11=-1421/2589, 2-11=-402/344, 3-11=-810/563, 3-8=-810/555, 5-8=-402/342, 6-8=-1426/2589

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B36	Flat	3	1	I50440440 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

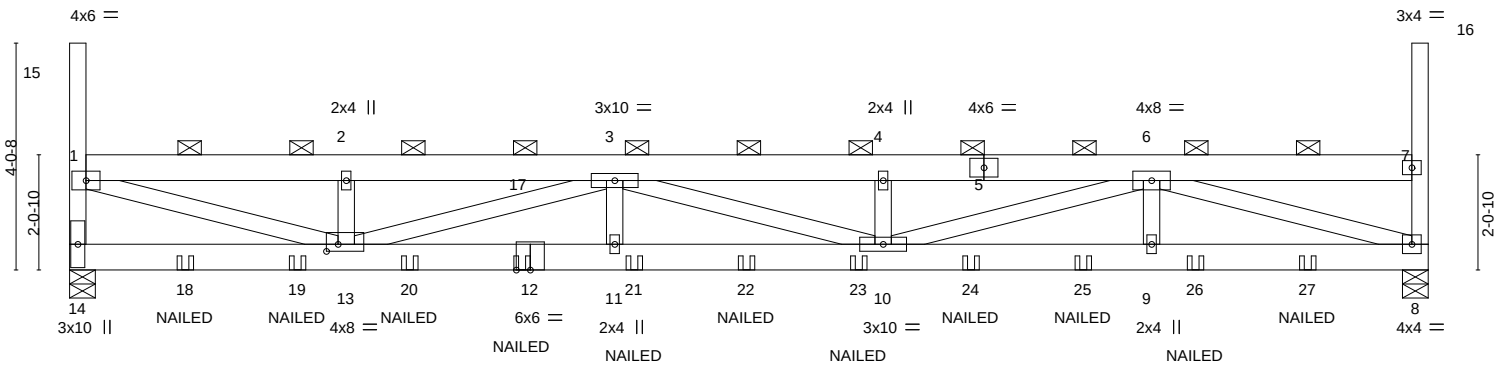
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	B37	FLAT GIRDER	3	2	I50440441
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:43:50 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-eRD3NeSeIUa3tn7jMt0ITycbwa8Z3lbYZXAD3wzhjGd

4-11-2	9-8-9	14-5-15	19-3-6	24-2-8
4-11-2	4-9-6	4-9-6	4-9-6	4-11-2

Scale = 1:41.1



4-11-2	9-8-9	14-5-15	19-3-6	24-2-8
4-11-2	4-9-6	4-9-6	4-9-6	4-11-2

Plate Offsets (X,Y)-- [13:0-2-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.28	10-11	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.26	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	-0.04	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 251 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-9-11 oc bracing.

REACTIONS. (lb/size) 14=1347/0-5-8, 8=1345/0-5-8
Max Horz 14=-232(LC 12)
Max Uplift 14=-1007(LC 10), 8=-904(LC 11)
Max Grav 14=1376(LC 2), 8=1376(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1248/899, 1-2=-3297/2656, 2-17=-3297/2656, 3-17=-3297/2656, 3-4=-4895/3858, 4-5=-4895/3858, 5-6=-4895/3858, 6-7=-223/266
BOT CHORD 14-18=-482/401, 18-19=-482/401, 13-19=-482/401, 13-20=-3921/4896, 12-20=-3921/4896, 11-12=-3921/4896, 11-21=-3921/4896, 21-22=-3921/4896, 22-23=-3921/4896, 10-23=-3921/4896, 10-24=-2451/3303, 24-25=-2451/3303, 9-25=-2451/3303, 9-26=-2451/3303, 26-27=-2451/3303, 8-27=-2451/3303
WEBS 1-13=-2557/3299, 2-13=-289/280, 3-13=-1686/1387, 3-11=-348/249, 4-10=-280/264, 6-10=-1494/1677, 6-9=-268/253, 6-8=-3309/2488

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1007 lb uplift at joint 14 and 904 lb uplift at joint 8.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	B37	FLAT GIRDER	3	2	I50440441 Job Reference (optional)

NOTES-

11) Load case(s) 20 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 5-17=-58, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-65(B) 18=-65(B) 19=-65(B) 20=-65(B) 21=-65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65(B) 26=-65(B) 27=-65(B)
   Trapezoidal Loads (plf)
   Vert: 1=-73-to-17=-58, 5=-58-to-7=-73
20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 5-17=-20, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-23(B) 18=-23(B) 19=-23(B) 20=-23(B) 21=-23(B) 22=-23(B) 23=-23(B) 24=-23(B) 25=-23(B) 26=-23(B) 27=-33(B)
   Trapezoidal Loads (plf)
   Vert: 1=-28-to-17=-20, 5=-20-to-7=-28

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	B38	JACK-CLOSED GIRDER	1	2	I50440442
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:45:11 2022 Page 1

ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-m0dhNLRSDNna5EpHcOzHF2SReDhOXSPTBeI0QkzhjFM

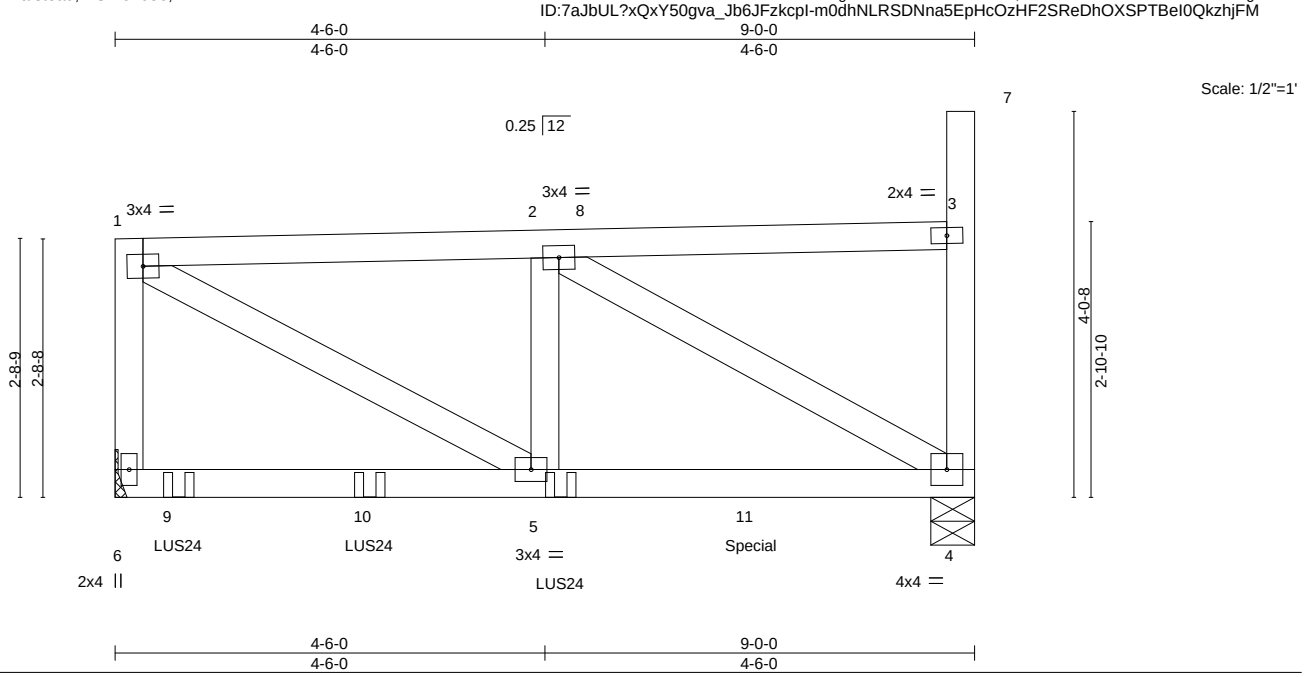


Plate Offsets (X,Y)-- [3:0-0-0,0-0-0], [4:0-0-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	0.09	4-5	>999	240	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.09	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 80 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=1077/Mechanical, 4=880/0-5-8
Max Horz 6=143(LC 11)
Max Uplift 6=-167(LC 10), 4=-200(LC 11)
Max Grav 6=1148(LC 29), 4=988(LC 29)

PLY-TO-PLY CONNECTION REQUIRES THAT AN APPROVED FACE MOUNT HANGER (SPECIFIED BY OTHERS) IS REQUIRED FOR LOADS REPORTED IN NOTES. FACE MOUNT HANGER SHALL BE ATTACHED WITH A MINIMUM OF 0.148"x 3" NAILS PER HANGER MANUFACTURER SPECIFICATIONS.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-6=-777/523, 1-2=-1167/637
BOT CHORD	6-9=-286/198, 9-10=-286/198, 5-10=-286/198, 5-11=-709/1165, 4-11=-709/1165
WEBS	1-5=-757/1333, 2-5=-112/398, 2-4=-1312/778

NOTES-

1) n/a
2) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
3) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
4) Unbalanced roof live loads have been considered for this design.
5) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
6) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
7) Provide adequate drainage to prevent water ponding.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint 6 and 200 lb uplift at joint 4.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
14) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-8-0 from the left end to 4-8-0 to connect truss(es) to back face of bottom chord.

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	B38	JACK-CLOSED GIRDER	1	2	I50440442 Job Reference (optional)

NOTES-

15) Fill all nail holes where hanger is in contact with lumber.
16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 662 lb down and 431 lb up at 6-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-48, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-298(B) 9=-322(B) 10=-317(B) 11=-401(B)
   Trapezoidal Loads (plf)
   Vert: 8=-48-to-3=-63
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-41, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-257(B) 9=-283(B) 10=-278(B) 11=-360(B)
   Trapezoidal Loads (plf)
   Vert: 8=-41-to-3=-52
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-28, 4-6=-20
   Horz: 1-6=18, 1-3=-12, 3-4=5, 3-7=37
   Concentrated Loads (lb)
   Vert: 5=40(B) 9=11(B) 10=16(B) 11=-607(B)
   Trapezoidal Loads (plf)
   Vert: 8=-28-to-3=-40
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-36, 4-6=-20
   Horz: 1-6=-5, 1-3=-5, 3-4=-18, 3-7=-37
   Concentrated Loads (lb)
   Vert: 5=40(B) 9=11(B) 10=16(B) 11=-386(B)
   Trapezoidal Loads (plf)
   Vert: 8=-36-to-3=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-28, 4-6=-20
   Horz: 1-6=14, 1-3=-12, 3-4=3, 3-7=25
   Concentrated Loads (lb)
   Vert: 5=40(B) 9=11(B) 10=16(B) 11=-533(B)
   Trapezoidal Loads (plf)
   Vert: 8=-28-to-3=-40
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-36, 4-6=-20
   Horz: 1-6=-3, 1-3=-5, 3-4=-14, 3-7=25
   Concentrated Loads (lb)
   Vert: 5=40(B) 9=11(B) 10=16(B) 11=-533(B)
   Trapezoidal Loads (plf)
   Vert: 8=-36-to-3=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-60, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-298(B) 9=-322(B) 10=-317(B) 11=-474(B)
   Trapezoidal Loads (plf)
   Vert: 8=-60-to-3=-75

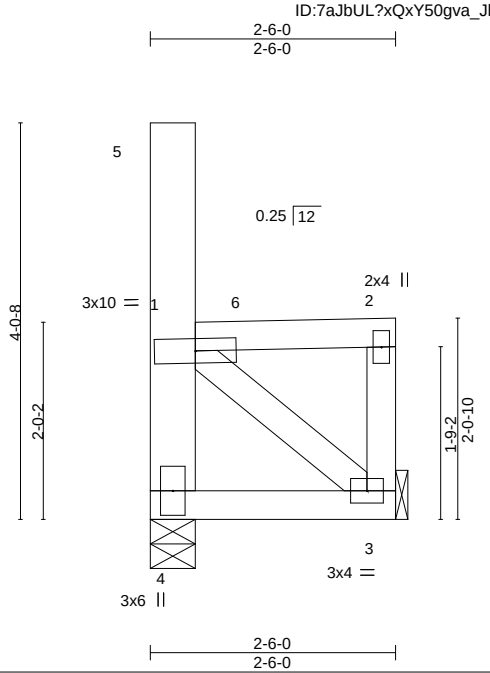
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	J01	Jack-Closed	104	1	I50440443
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:09 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-?0P_nToN8vhiAjBF_WlvRx5AUqCOYcgOnYft1ezhuDa



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.00	3-4	>999	240	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.00	3-4	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP							Weight: 16 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
4-5: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=162(LC 11)
Max Uplift 4=-169(LC 10), 3=-159(LC 11)
Max Grav 4=201(LC 13), 3=189(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-190/551
BOT CHORD 3-4=-344/522
WEBS 1-3=-623/411

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=169, 3=159.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-48, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-6=-48
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	J01	Jack-Closed	104	1	I50440443 Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 2-6=-41, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-52-to-6=-41
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=-12, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-40-to-6=-28
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=-5, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-47-to-6=-36
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=-12, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-40-to-6=-28
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=-5, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-47-to-6=-36
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-6=-60

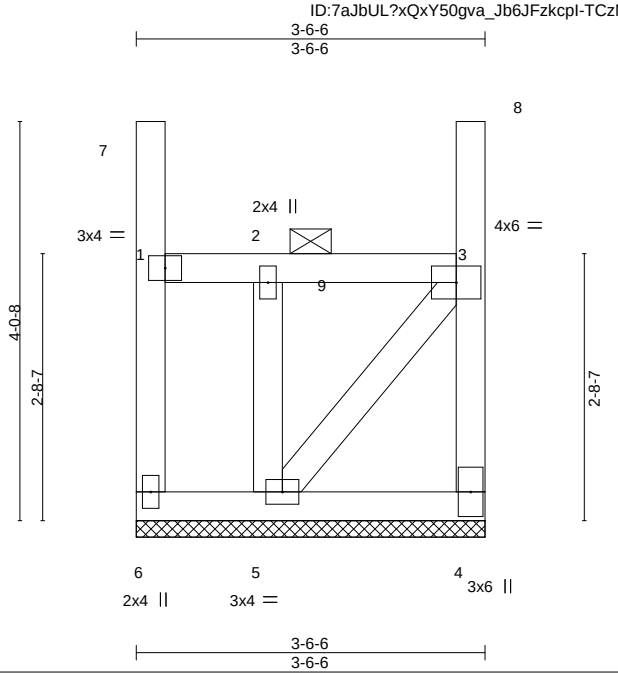
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T01	Flat Supported Gable	3	1	I50440444
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:10 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-TCzM?pp0vDpZntmSYEp8_8eKAEYmH2yY0CORZ4zhuDZ



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-7, 1-3, 3-8, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-8-2 oc bracing.

REACTIONS. (size) 6=3-6-6, 4=3-6-6, 5=3-6-6
Max Horz 6=-196(LC 10)
Max Uplift 6=-36(LC 10), 4=-228(LC 11), 5=-187(LC 10)
Max Grav 6=51(LC 23), 4=237(LC 12), 5=268(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-258/198, 2-3=-258/198, 3-4=-467/681
BOT CHORD 5-6=-469/501
WEBS 3-5=-709/724

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 4=228, 5=187.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

February 25,2022

LOAD CASE(S) Standard

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T01	Flat Supported Gable	3	1	I50440444 Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-9=-58, 4-6=-20
   Trapezoidal Loads (plf)
   Vert: 1=-73-to-9=-58
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-9=-48, 4-6=-20
   Trapezoidal Loads (plf)
   Vert: 1=-60-to-9=-48
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-9=-36, 4-6=-20
   Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-9=-36
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-9=-36, 4-6=-20
   Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-9=-36
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-9=-36, 4-6=-20
   Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-9=-36
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-9=-36, 4-6=-20
   Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-9=-36
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-9=-60, 4-6=-20
   Trapezoidal Loads (plf)
   Vert: 1=-75-to-9=-60

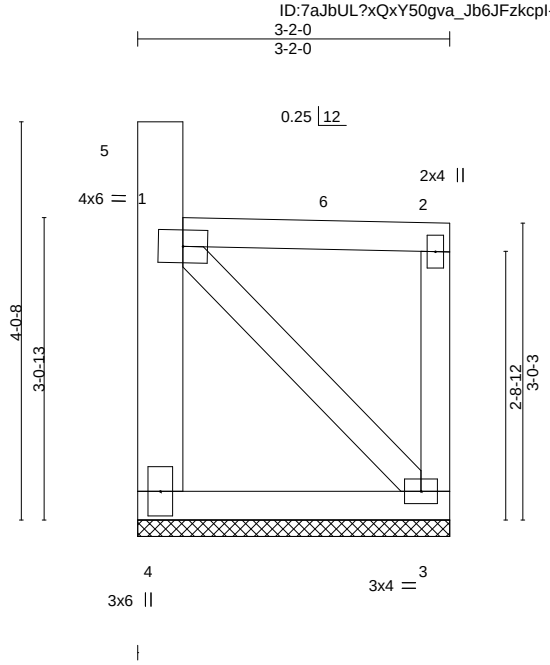
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T02	Roof Special Supported Gable	6	1	I50440445
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:11 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-xOXlC9qegWxQP1Le6xKNXMAXMeuJ0W5hFs8_5WzhuDY



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
4-5: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=3-2-0, 3=3-2-0
Max Horz 4=-140(LC 10)
Max Uplift 4=-100(LC 10), 3=-112(LC 11)
Max Grav 4=160(LC 26), 3=172(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-132/435
BOT CHORD 3-4=-271/336
WEBS 1-3=-375/331

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
5) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=112.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T02	Roof Special Supported Gable	6	1	I50440445 Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-48, 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-63-to-6=-48

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-41, 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-52-to-6=-41

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-36, 3-4=-20
   Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-6=-36

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-28, 3-4=-20
   Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
   Trapezoidal Loads (plf)
   Vert: 1=-40-to-6=-28

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-36, 3-4=-20
   Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-6=-36

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-28, 3-4=-20
   Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14
   Trapezoidal Loads (plf)
   Vert: 1=-40-to-6=-28

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-75-to-6=-60

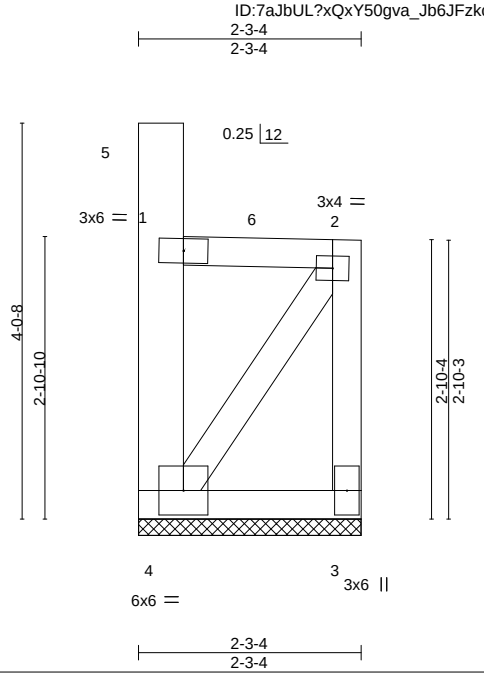
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T03	Roof Special Supported Gable	8	1	I50440446
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:11 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-xOXlC9qegWxQP1Le6xKNXMAYDevE0WuhFs8_5WzhuDY



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
4-5: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-3-4, 3=2-3-4
Max Horz 4=-143(LC 10)
Max Uplift 4=-152(LC 10), 3=-165(LC 11)
Max Grav 4=191(LC 13), 3=198(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-360/401
WEBS 2-4=-391/514

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
5) Provide adequate drainage to prevent water ponding.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=152, 3=165.
11) n/a
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T03	Roof Special Supported Gable	8	1	I50440446 Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-48, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-6=-48

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-6=-60

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-50, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-6=-50

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-41, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-56-to-6=-41

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-6=-20, 3-4=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-6=-20

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=98, 3-4=-12
Horz: 1-4=27, 1-5=139, 1-2=110, 2-3=52
Trapezoidal Loads (plf)
Vert: 1=83-to-6=98

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=98, 3-4=-12
Horz: 1-4=-52, 1-5=-80, 1-2=110, 2-3=-27
Trapezoidal Loads (plf)
Vert: 1=83-to-6=98

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=-40, 1-5=56, 1-2=-16, 2-3=-39
Trapezoidal Loads (plf)
Vert: 1=-51-to-6=-36

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=39, 1-5=-80, 1-2=-16, 2-3=40
Trapezoidal Loads (plf)
Vert: 1=-51-to-6=-36

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=6, 3-4=-12
Horz: 1-4=12, 1-5=50, 1-2=18, 2-3=18
Trapezoidal Loads (plf)
Vert: 1=-9-to-6=6

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=16, 3-4=-12
Horz: 1-4=-18, 1-5=-50, 1-2=28, 2-3=-12
Trapezoidal Loads (plf)
Vert: 1=1-to-6=16

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-14, 3-4=-20
Horz: 1-4=24, 1-5=50, 1-2=6, 2-3=6
Trapezoidal Loads (plf)
Vert: 1=-29-to-6=-14

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-3, 3-4=-20
Horz: 1-4=-6, 1-5=-50, 1-2=17, 2-3=-24
Trapezoidal Loads (plf)
Vert: 1=-18-to-6=-3

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=6, 3-4=-12
Horz: 1-4=7, 1-5=-33, 1-2=18, 2-3=15
Trapezoidal Loads (plf)
Vert: 1=-9-to-6=6

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=16, 3-4=-12
Horz: 1-4=-15, 1-5=-33, 1-2=28, 2-3=-7
Trapezoidal Loads (plf)
Vert: 1=1-to-6=16

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=6, 3-4=-12
Horz: 1-4=7, 1-5=-33, 1-2=18, 2-3=15
Trapezoidal Loads (plf)
Vert: 1=-9-to-6=6

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=16, 3-4=-12
Horz: 1-4=-15, 1-5=-33, 1-2=28, 2-3=-7
Trapezoidal Loads (plf)
Vert: 1=1-to-6=16

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-14, 3-4=-20
Horz: 1-4=19, 1-5=-33, 1-2=6, 2-3=4
Trapezoidal Loads (plf)
Vert: 1=-29-to-6=-14

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-3, 3-4=-20
Horz: 1-4=-4, 1-5=-33, 1-2=17, 2-3=-19
Trapezoidal Loads (plf)
Vert: 1=-18-to-6=-3

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 2-6=-20, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-6=-20

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-51-to-6=-36

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-43-to-6=-28

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-51-to-6=-36

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-43-to-6=-28

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-45, 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-60-to-6=-45

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-38, 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-53-to-6=-38

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T03	Roof Special Supported Gable	8	1	I50440446 Job Reference (optional)

LOAD CASE(S) Standard

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-45, 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-60-to-6=-45

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-38, 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-53-to-6=-38

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-6=-60

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-12
Horz: 1-4=-16, 1-5=33, 1-2=-16, 2-3=-16
Trapezoidal Loads (plf)
Vert: 1=-43-to-6=-28

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=4, 3-4=-12
Horz: 1-4=16, 1-5=33, 1-2=16, 2-3=16
Trapezoidal Loads (plf)
Vert: 1=-11-to-6=4

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-20, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-6=-20

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-6=-60

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-20, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-6=-20

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-50, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-6=-50

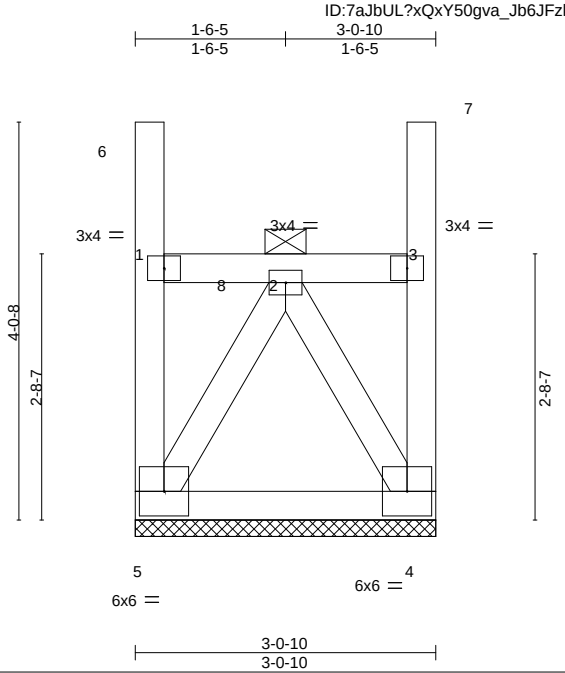
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T04	Flat Supported Gable	2	1	I50440447
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:12 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-Pb57QVqGRq3G1Awqferc3Zjgg2Elly6qUWtXdyzhuDX



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.11	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-6, 1-3, 3-7, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=3-0-10, 4=3-0-10
Max Horz 5=-196(LC 10)
Max Uplift 5=-179(LC 10), 4=-179(LC 11)
Max Grav 5=211(LC 22), 4=209(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-262/204, 2-3=-261/204
BOT CHORD 4-5=-269/243
WEBS 2-5=-415/526, 2-4=-411/522

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=179, 4=179.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

February 25,2022

LOAD CASE(S) Standard

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T04	Flat Supported Gable	2	1	I50440447 Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-8=-58, 4-5=-20
   Trapezoidal Loads (plf)
   Vert: 1=-73-to-8=-58
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-8=-48, 4-5=-20
   Trapezoidal Loads (plf)
   Vert: 1=-60-to-8=-48
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-8=-36, 4-5=-20
   Horz: 1-5=18, 1-6=37, 3-4=5, 3-7=25
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-8=-36
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-8=-36, 4-5=-20
   Horz: 1-5=-5, 1-6=-25, 3-4=-18, 3-7=-37
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-8=-36
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-8=-36, 4-5=-20
   Horz: 1-5=14, 1-6=-25, 3-4=3, 3-7=25
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-8=-36
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-8=-36, 4-5=-20
   Horz: 1-5=-3, 1-6=-25, 3-4=-14, 3-7=25
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-8=-36
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-8=-60, 4-5=-20
   Trapezoidal Loads (plf)
   Vert: 1=-75-to-8=-60

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T05	Flat Supported Gable	3	1	I50440448
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:13 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-tnfVdqruB8B7eKV1DMMrcnGrQRaGUOt_iAd5APzhuDW

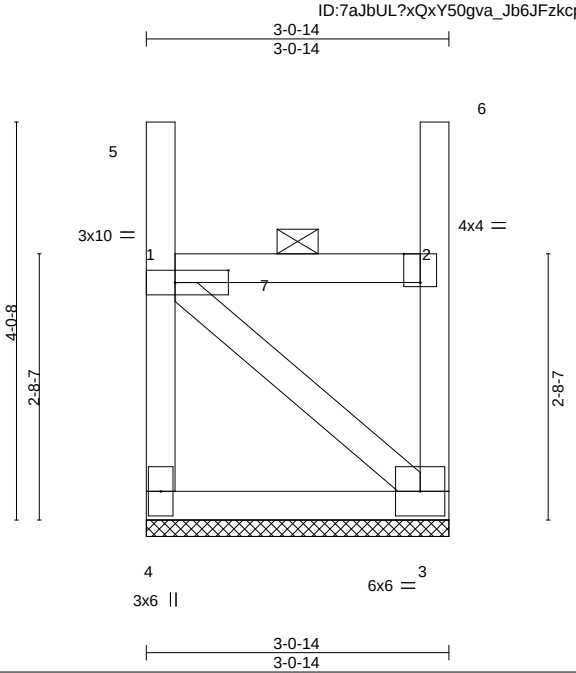


Plate Offsets (X,Y)-- [1:0-6-8,0-1-8], [2:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 19 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, 2-6, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-6-2 oc bracing.

REACTIONS. (size) 4=3-0-14, 3=3-0-14
Max Horz 4=-196(LC 10)
Max Uplift 4=-177(LC 10), 3=-177(LC 11)
Max Grav 4=212(LC 22), 3=208(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-313/587, 1-2=-252/212
BOT CHORD 3-4=-483/494
WEBS 1-3=-613/614

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=177, 3=177.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

February 25,2022

LOAD CASE(S) Standard

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T05	Flat Supported Gable	3	1	I50440448 Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-58, 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-73-to-7=-58
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-48, 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-60-to-7=-48
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-36, 3-4=-20
   Horz: 1-4=18, 1-5=37, 2-3=5, 2-6=25
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-7=-36
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-36, 3-4=-20
   Horz: 1-4=-5, 1-5=-25, 2-3=-18, 2-6=-37
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-7=-36
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-36, 3-4=-20
   Horz: 1-4=14, 1-5=-25, 2-3=3, 2-6=25
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-7=-36
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-36, 3-4=-20
   Horz: 1-4=-3, 1-5=-25, 2-3=-14, 2-6=25
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-7=-36
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-60, 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-75-to-7=-60

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	T10	JACK-CLOSED GIRDER	4	2	I50440449
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:50:12 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-SwJTYG4GKritiUK7k6ttyWQtdZPYZarmPzjRTnzhjAf

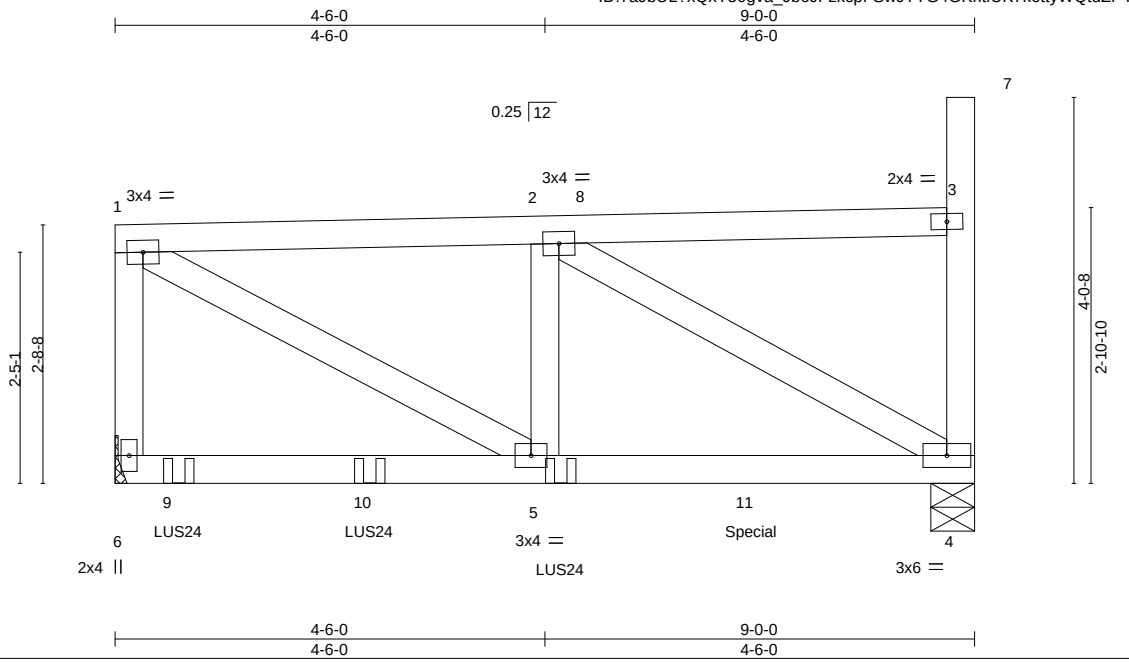


Plate Offsets (X,Y)-- [3:0-0-0,0-0-0], [4:0-0-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.10	4-5	>999	240	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.10	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 80 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=1066/Mechanical, 4=918/0-5-8
Max Horz 6=143(LC 11)
Max Uplift 6=-200(LC 10), 4=-224(LC 11)
Max Grav 6=1140(LC 29), 4=1032(LC 29)

PLY-TO-PLY CONNECTION REQUIRES THAT AN APPROVED FACE MOUNT HANGER (SPECIFIED BY OTHERS) IS REQUIRED FOR LOADS REPORTED IN NOTES. FACE MOUNT HANGER SHALL BE ATTACHED WITH A MINIMUM OF 0.148"x 3" NAILS PER HANGER MANUFACTURER SPECIFICATIONS.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-6=-797/540, 1-2=-1200/666
BOT CHORD	6-9=-286/198, 9-10=-286/198, 5-10=-286/198, 5-11=-738/1199, 4-11=-738/1199
WEBS	1-5=-790/1371, 2-5=-129/403, 2-4=-1350/812

NOTES-

1) n/a
2) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
3) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
4) Unbalanced roof live loads have been considered for this design.
5) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
6) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
7) Provide adequate drainage to prevent water ponding.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 200 lb uplift at joint 6 and 224 lb uplift at joint 4.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
14) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-8-0 from the left end to 4-8-0 to connect truss(es) to front face of bottom chord.

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	T10	JACK-CLOSED GIRDER	4	2	I50440449
					Job Reference (optional)

NOTES-

15) Fill all nail holes where hanger is in contact with lumber.
16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 739 lb down and 482 lb up at 6-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-48, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-317(F) 9=-302(F) 10=-298(F) 11=-448(F)
   Trapezoidal Loads (plf)
   Vert: 8=-48-to-3=-63
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-41, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-272(F) 9=-263(F) 10=-259(F) 11=-402(F)
   Trapezoidal Loads (plf)
   Vert: 8=-41-to-3=-52
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-28, 4-6=-20
   Horz: 1-6=18, 1-3=-12, 3-4=5, 3-7=37
   Concentrated Loads (lb)
   Vert: 5=40(F) 9=31(F) 10=35(F) 11=-678(F)
   Trapezoidal Loads (plf)
   Vert: 8=-28-to-3=-40
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-36, 4-6=-20
   Horz: 1-6=-5, 1-3=-5, 3-4=-18, 3-7=-37
   Concentrated Loads (lb)
   Vert: 5=40(F) 9=31(F) 10=35(F) 11=-431(F)
   Trapezoidal Loads (plf)
   Vert: 8=-36-to-3=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-28, 4-6=-20
   Horz: 1-6=14, 1-3=-12, 3-4=3, 3-7=25
   Concentrated Loads (lb)
   Vert: 5=40(F) 9=31(F) 10=35(F) 11=-596(F)
   Trapezoidal Loads (plf)
   Vert: 8=-28-to-3=-40
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-36, 4-6=-20
   Horz: 1-6=-3, 1-3=-5, 3-4=-14, 3-7=25
   Concentrated Loads (lb)
   Vert: 5=40(F) 9=31(F) 10=35(F) 11=-596(F)
   Trapezoidal Loads (plf)
   Vert: 8=-36-to-3=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-60, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-317(F) 9=-302(F) 10=-298(F) 11=-529(F)
   Trapezoidal Loads (plf)
   Vert: 8=-60-to-3=-75

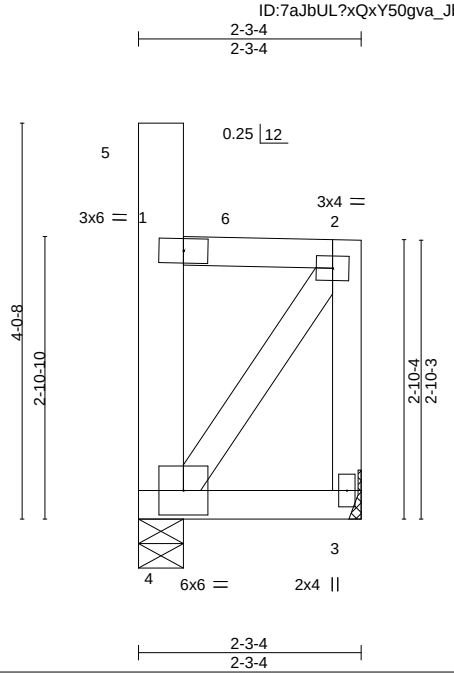
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T47	Roof Special	30	1	I50440450
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:15 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-qAmF2Wt8jlSruefPLnOJhCLELFGAyJyHAU6BEHzhuDU



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.00	4	>999	240	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	3-4	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP							Weight: 17 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
4-5: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=0-5-8
Max Horz 4=-143(LC 10)
Max Uplift 3=-166(LC 11), 4=-159(LC 10)
Max Grav 3=197(LC 12), 4=184(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-342/363
WEBS 2-4=-344/492

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=166, 4=159.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-48, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-6=-48
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 2-6=-41, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-52-to-6=-41
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-47-to-6=-36
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-40-to-6=-28
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-47-to-6=-36
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-40-to-6=-28
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-6=-60

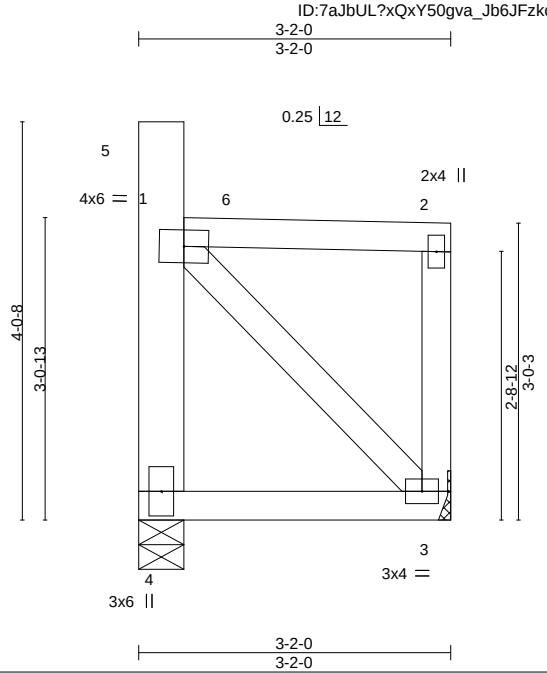
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T48	Roof Special	18	1	I50440451
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:16 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-IMKdFsumU3aiVoDcuUwYEPuOAfbahmPQO8rlmkzhuDT



LOADING (psf)

TCLL (roof)	20.0
Snow (Pf/Pg)	13.9/20.0
TCDL	10.0
BCLL	0.0 *
BCDL	10.0

SPACING-	2-0-0
Plate Grip DOL	1.15
Lumber DOL	1.15
Rep Stress Incr	NO
Code	IBC2018/TPI2014

CSI.	
TC	0.18
BC	0.09
WB	0.09
Matrix-MP	

	in	(loc)	l/defl	L/d
DEFL.				
Vert(LL)	-0.00	3-4	>999	240
Vert(CT)	-0.01	3-4	>999	180
Horz(CT)	0.00	3	n/a	n/a

PLATES	**GRIP**
MT20	197/144
Weight: 20 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except*
	4-5: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-140(LC 10)
Max Uplift 4=-95(LC 10), 3=-112(LC 11)
Max Grav 4=165(LC 26), 3=173(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-4=-137/416
BOT CHORD	3-4=-243/309
WEBS	1-3=-357/292

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=112.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-48, 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-63-to-6=-48

February 25,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-75-to-6=-60
3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-50, 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-65-to-6=-50
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-41, 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-56-to-6=-41
5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 2-6=-20, 3-4=-40
   Trapezoidal Loads (plf)
   Vert: 1=-35-to-6=-20
6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=98, 3-4=-12
   Horz: 1-4=27, 1-5=139, 1-2=110, 2-3=42
   Trapezoidal Loads (plf)
   Vert: 1=83-to-6=98
7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=98, 3-4=-12
   Horz: 1-4=-42, 1-5=-70, 1-2=110, 2-3=-27
   Trapezoidal Loads (plf)
   Vert: 1=83-to-6=98
8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-36, 3-4=-20
   Horz: 1-4=-30, 1-5=46, 1-2=-16, 2-3=-39
   Trapezoidal Loads (plf)
   Vert: 1=-51-to-6=-36
9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-36, 3-4=-20
   Horz: 1-4=39, 1-5=-70, 1-2=-16, 2-3=30
   Trapezoidal Loads (plf)
   Vert: 1=-51-to-6=-36
10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=6, 3-4=-12
   Horz: 1-4=12, 1-5=50, 1-2=18, 2-3=18
   Trapezoidal Loads (plf)
   Vert: 1=-9-to-6=6
11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=16, 3-4=-12
   Horz: 1-4=-18, 1-5=-50, 1-2=28, 2-3=-12
   Trapezoidal Loads (plf)
   Vert: 1=1-to-6=16
12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-14, 3-4=-20
   Horz: 1-4=24, 1-5=50, 1-2=6, 2-3=6
   Trapezoidal Loads (plf)
   Vert: 1=-29-to-6=-14
13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-3, 3-4=-20
   Horz: 1-4=-6, 1-5=-50, 1-2=17, 2-3=-24
   Trapezoidal Loads (plf)
   Vert: 1=-18-to-6=-3
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=6, 3-4=-12
   Horz: 1-4=7, 1-5=-33, 1-2=18, 2-3=15
   Trapezoidal Loads (plf)
   Vert: 1=-9-to-6=6
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=16, 3-4=-12
Horz: 1-4=-15, 1-5=-33, 1-2=28, 2-3=-7
Trapezoidal Loads (plf)
Vert: 1=1-to-6=16

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=6, 3-4=-12
Horz: 1-4=7, 1-5=-33, 1-2=18, 2-3=15
Trapezoidal Loads (plf)
Vert: 1=-9-to-6=6

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=16, 3-4=-12
Horz: 1-4=-15, 1-5=-33, 1-2=28, 2-3=-7
Trapezoidal Loads (plf)
Vert: 1=1-to-6=16

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-14, 3-4=-20
Horz: 1-4=19, 1-5=-33, 1-2=6, 2-3=4
Trapezoidal Loads (plf)
Vert: 1=-29-to-6=-14

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-3, 3-4=-20
Horz: 1-4=-4, 1-5=-33, 1-2=17, 2-3=-19
Trapezoidal Loads (plf)
Vert: 1=-18-to-6=-3

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 2-6=-20, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-6=-20

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-51-to-6=-36

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-43-to-6=-28

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-51-to-6=-36

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-43-to-6=-28

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-45, 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-60-to-6=-45

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-38, 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-53-to-6=-38

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-45, 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-60-to-6=-45

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T48	Roof Special	18	1	I50440451 Job Reference (optional)

LOAD CASE(S) Standard

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-38, 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-53-to-6=-38

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-6=-60

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-12
Horz: 1-4=-16, 1-5=33, 1-2=-16, 2-3=-16
Trapezoidal Loads (plf)
Vert: 1=-43-to-6=-28

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=4, 3-4=-12
Horz: 1-4=16, 1-5=33, 1-2=16, 2-3=16
Trapezoidal Loads (plf)
Vert: 1=-11-to-6=4

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-20, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-6=-20

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-6=-60

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-20, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-6=-20

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-50, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-6=-50

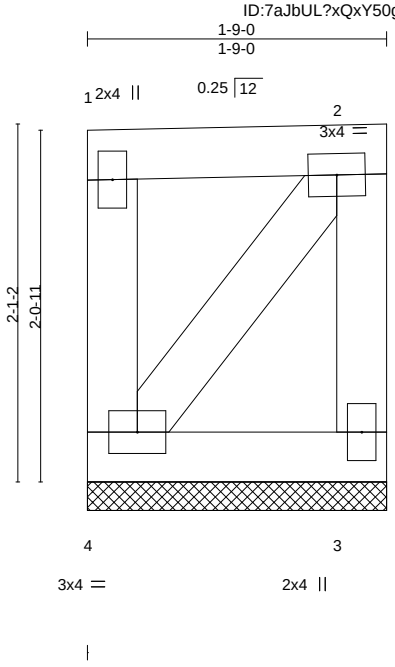
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE01	Blocking Supported	16	1	I50440452
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:17 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-mYu0TCuPFMiZ7yooSCRnmdQbv3yvQEjZdobIJAzhuDS



Scale = 1:13.5

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-9-0, 3=1-9-0
Max Horz 4=55(LC 13)
Max Uplift 4=-35(LC 10), 3=-29(LC 11)
Max Grav 4=73(LC 26), 3=66(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

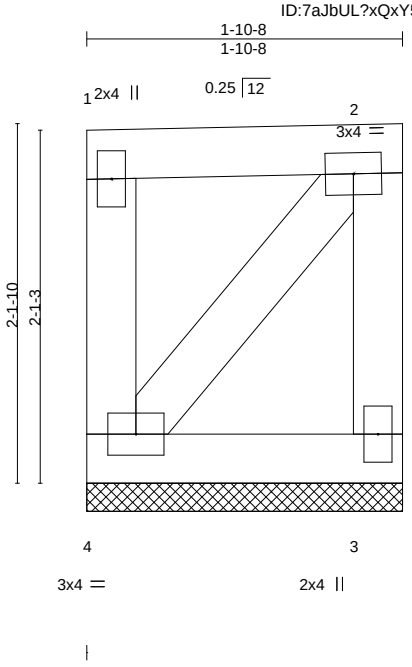
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE02	Blocking Supported	16	1	I50440453
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:18 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-ElSOgYv10gqQl5N_0vy0JqzmXSI59hzjsSKsrczhuDR



Scale = 1:13.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=56(LC 13)
Max Uplift 4=-34(LC 10), 3=-28(LC 11)
Max Grav 4=76(LC 26), 3=69(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

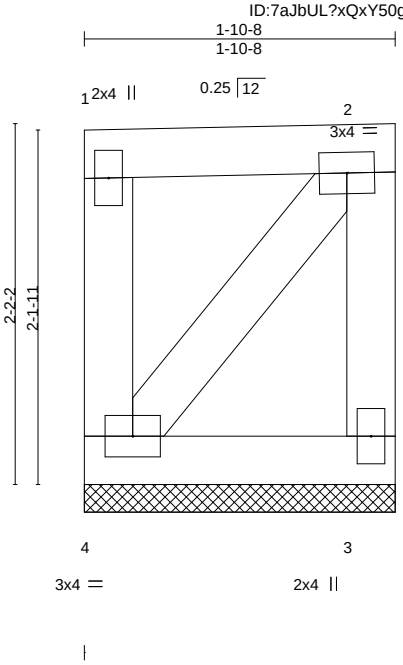
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE03	Blocking Supported	16	1	I50440454
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:19 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-ix0muuwfn_yHMFyAadTFr2WxHseKu8Cs564PN2zhuDQ



Scale = 1:13.9

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=57(LC 13)
Max Uplift 4=-36(LC 10), 3=-29(LC 11)
Max Grav 4=77(LC 26), 3=70(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

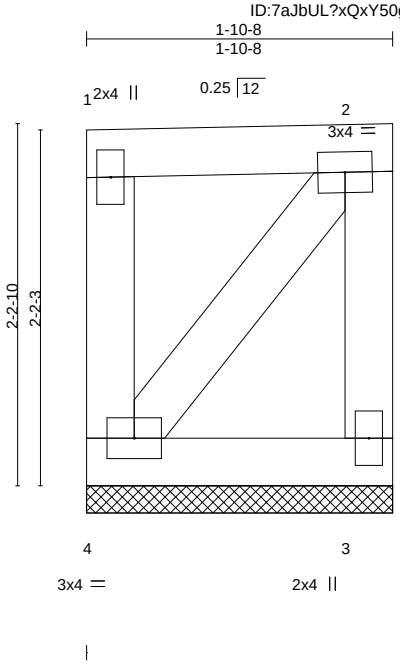
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE04	Blocking Supported	16	1	I50440455
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:19 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-ix0muuwfn_yHMFyAadTFr2WxHseKu8Bs564PN2zhuDQ



Scale = 1:14.1

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=58(LC 13)
Max Uplift 4=-37(LC 10), 3=-31(LC 11)
Max Grav 4=78(LC 26), 3=71(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

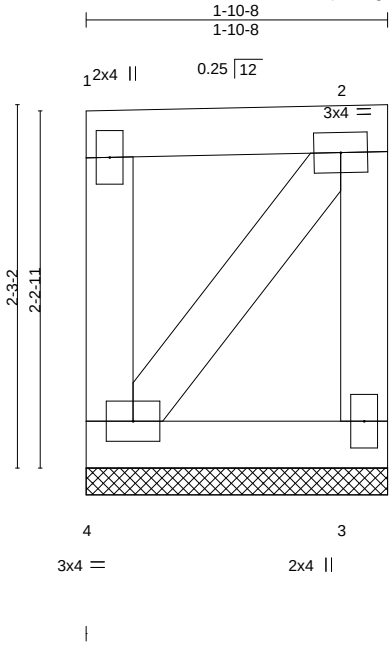
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE05	Blocking Supported	16	1	I50440456
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:20 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-A7a85ExHYH48_PXN7K_UOF251G_ZdbQ0JmpyvVzhuDP



Scale = 1:14.3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=60(LC 11)
Max Uplift 4=-39(LC 10), 3=-32(LC 11)
Max Grav 4=80(LC 26), 3=72(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

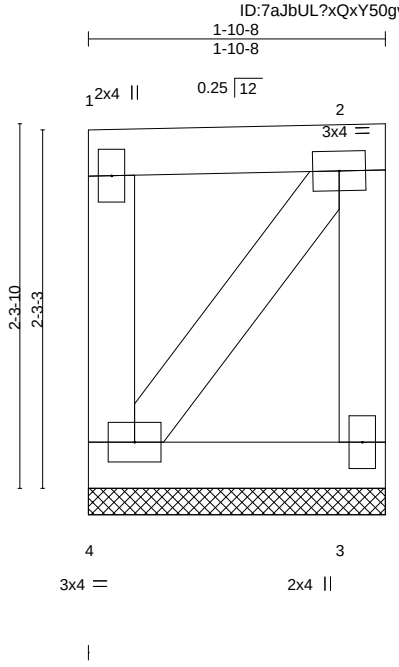
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE06	Blocking Supported	16	1	I50440457
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:21 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-eK8WJaxvJbC?cZ6Zh1VjwTbGngJoM2f9YPZWSxzhuDO



Scale = 1:14.5

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=61(LC 13)
Max Uplift 4=-40(LC 10), 3=-34(LC 11)
Max Grav 4=81(LC 26), 3=73(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

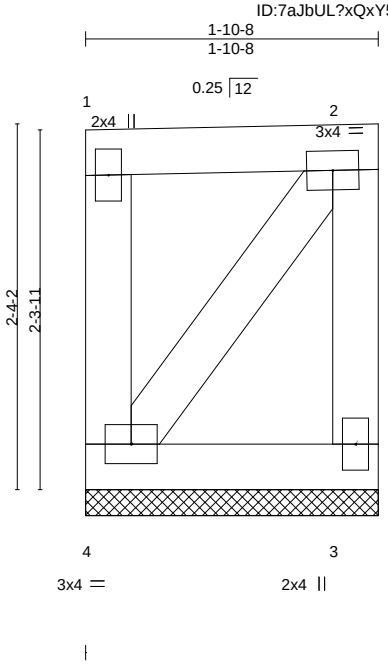
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE07	Blocking Supported	16	1	I50440458
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:22 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-6WhvWvyX4vKsDjhlFl0yTg8RW4f15VuJn3I3_NzhuDN



Scale = 1:14.8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=62(LC 13)
Max Uplift 4=-42(LC 10), 3=-35(LC 11)
Max Grav 4=82(LC 26), 3=74(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

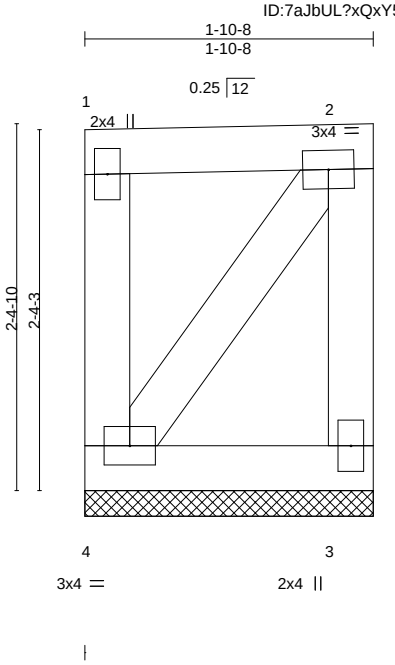
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE08	Blocking Supported	16	1	I50440459
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:22 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-6WhvWvyX4vKsDjhlFl0yTg8RU4f15VtJn3I3_NzhuDN



Scale = 1:15.0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=63(LC 13)
Max Uplift 4=-44(LC 10), 3=-37(LC 11)
Max Grav 4=83(LC 26), 3=76(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

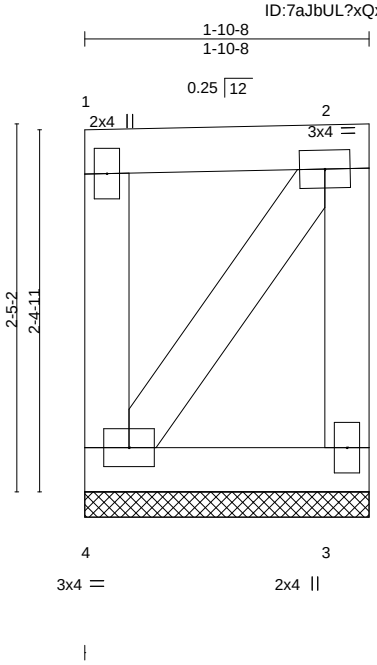
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE09	Blocking Supported	16	1	I50440460 Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:23 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-biFHjFz9rCSjrtGypSYB0tgcBT?Gqy6S?j2dWqzhuDM



Scale = 1:15.2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=65(LC 11)
Max Uplift 4=-45(LC 10), 3=-39(LC 11)
Max Grav 4=84(LC 26), 3=77(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

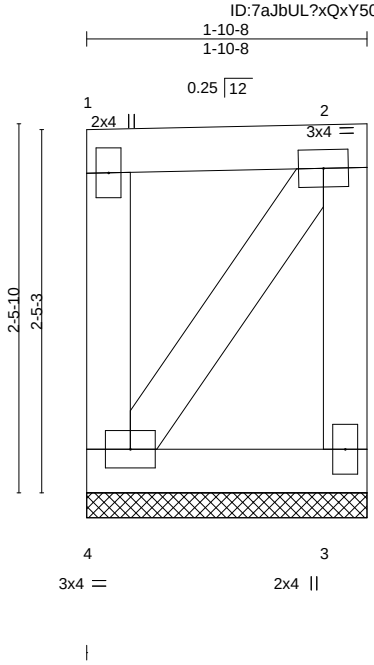
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE10	Blocking Supported	16	1	I50440461
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:24 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-3upfxb_ocWaZT0r8MA3QY5DmvtLVZPLbENnA3GzhuDL



Scale = 1:15.4

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=66(LC 11)
Max Uplift 4=-47(LC 10), 3=-41(LC 11)
Max Grav 4=86(LC 26), 3=78(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

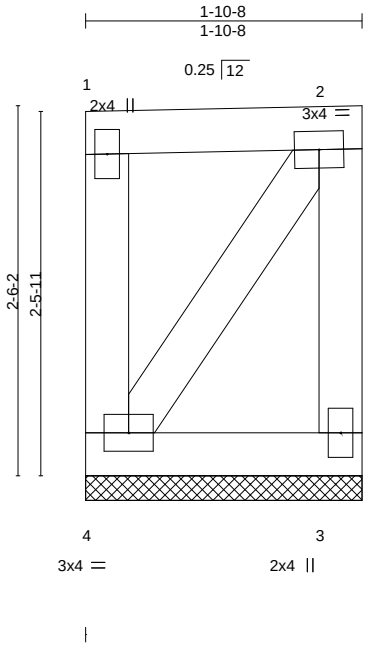
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE11	Blocking Supported	16	1	I50440462 Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:25 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-X5N18x_QNqiQ4AQKwtaf5IlxdHhkIsaIT1XjbizhuDK



Scale = 1:15.6

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=67(LC 13)
Max Uplift 4=-49(LC 10), 3=-42(LC 11)
Max Grav 4=87(LC 26), 3=79(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

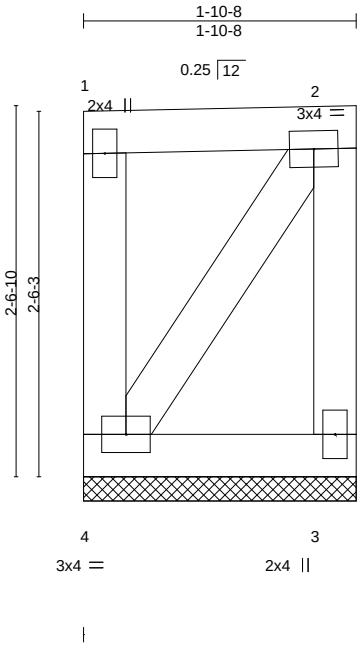
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE12	Blocking Supported	16	1	I50440463 Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:25 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-X5N18x_QNqiQ4AQKwtaf5IlxbHhkIsZlT1XjbizhuDK



Scale: 3/4"=1'

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=69(LC 13)
Max Uplift 4=-50(LC 10), 3=-44(LC 11)
Max Grav 4=88(LC 26), 3=81(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

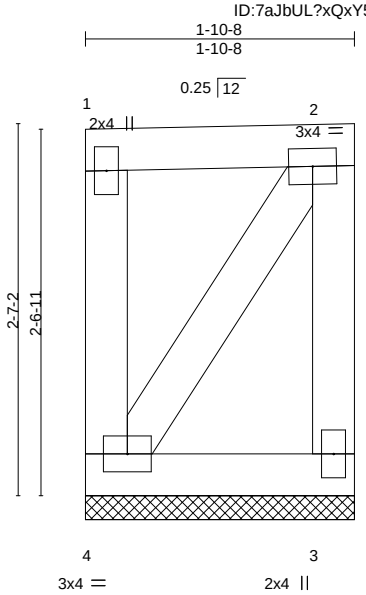
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE13	Blocking Supported	16	1	I50440464
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:26 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-?HxPMH?287qHiK_XUb5udWI6Ch1z1JouihGH78zhuDJ



Scale: 3/4"=1'

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=70(LC 13)
Max Uplift 4=-52(LC 10), 3=-46(LC 11)
Max Grav 4=90(LC 26), 3=82(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

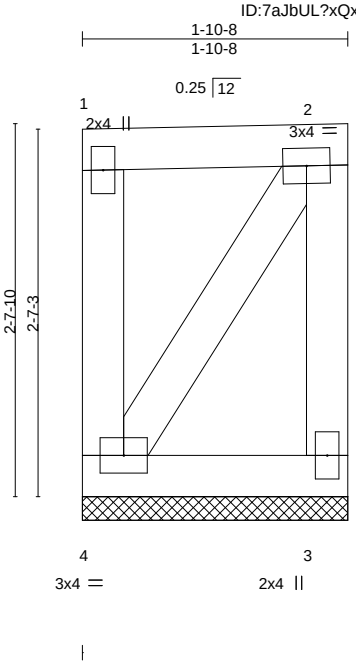
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE14	Blocking Supported	16	1	I50440465 Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:27 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-TTVoZd0guRy8KUZj2lc7AjrHv5MCmm12wL0qfbzhuDI



Scale = 1:16.3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=71(LC 11)
Max Uplift 4=-54(LC 10), 3=-48(LC 11)
Max Grav 4=91(LC 26), 3=83(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

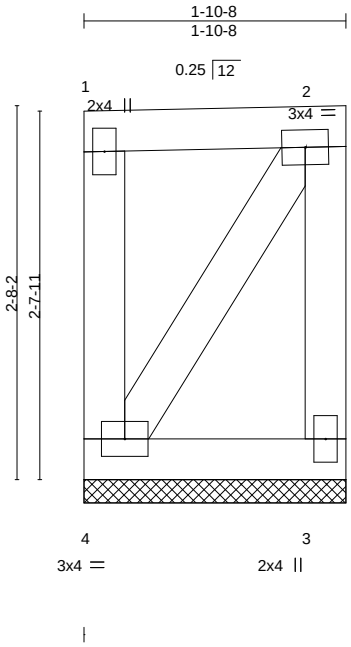
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE15	Blocking Supported	16	1	I50440466
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:28 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-xg3Anz1Ifl4?xe8vb?7MjxNScUiRVDFB9?lNC1zhuDH



Scale = 1:16.5

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=72(LC 11)
Max Uplift 4=-56(LC 10), 3=-50(LC 11)
Max Grav 4=93(LC 26), 3=85(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

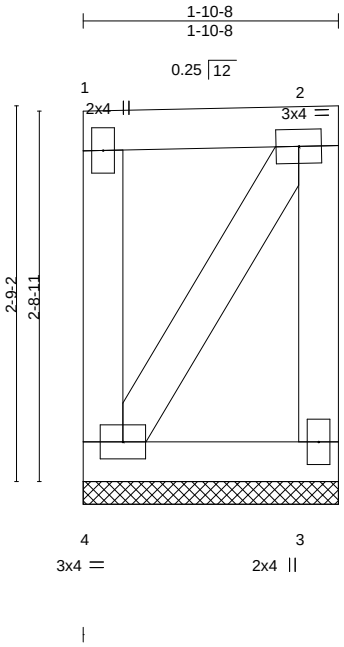
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE16	Blocking Supported	11	1	I50440467
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:28 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-xg3Anz1lfl4?xe8vb?7MjxNSXUiRVDDB9?lNC1zhuDH



Scale = 1:16.9

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=75(LC 13)
Max Uplift 4=-60(LC 10), 3=-53(LC 11)
Max Grav 4=95(LC 26), 3=88(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

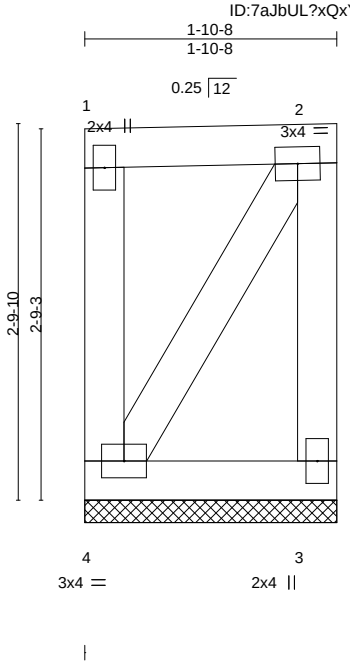
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE17	Blocking Supported	11	1	I50440468
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:29 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-PscY_J2wQ2CsZoj59jebF8wdDu2gEgSLOfVxkTzhuDG



Scale = 1:17.1

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 12 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=76(LC 13)
Max Uplift 4=-62(LC 10), 3=-55(LC 11)
Max Grav 4=97(LC 26), 3=89(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

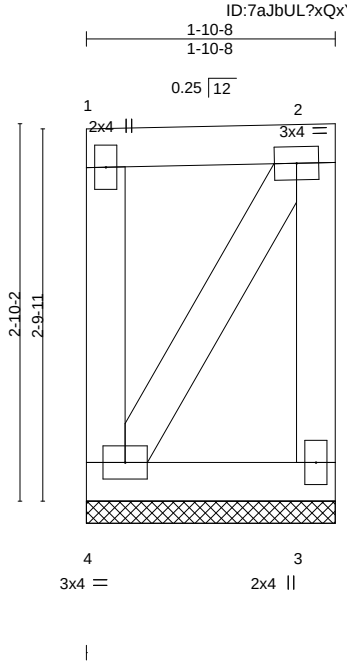
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE18	Blocking Supported	11	1	I50440469
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:30 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-u2AwBe2YBMKjBxIljQAqoMToxIOvz7gUcJEUGwzhuDF



Scale = 1:17.4

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=77(LC 11)
Max Uplift 4=-64(LC 10), 3=-58(LC 11)
Max Grav 4=98(LC 26), 3=91(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

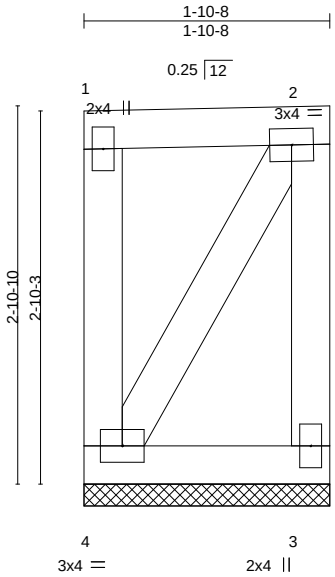
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE19	Blocking Supported	3	1	I50440470
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:31 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-MFkIP_3BygTao5tUH8h3KZ?zeik8iZvdrz_2oMzhuDE



Scale = 1:17.6

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=79(LC 13)
Max Uplift 4=-66(LC 10), 3=-60(LC 11)
Max Grav 4=100(LC 26), 3=92(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

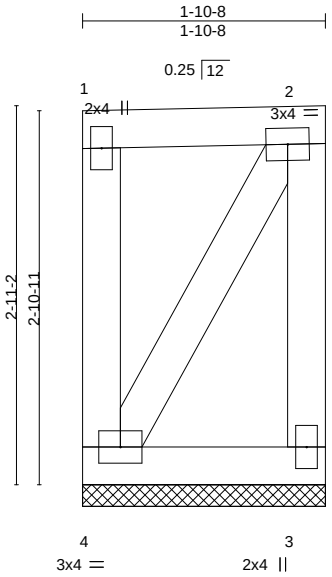
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE20	Blocking Supported	3	1	I50440471
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:32 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-qRIhcK4pjzbRQFSgqrCItnY8L64MR08n4djbLozhuDD



Scale = 1:17.8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=80(LC 11)
Max Uplift 4=-68(LC 10), 3=-62(LC 11)
Max Grav 4=102(LC 26), 3=94(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-198/252

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

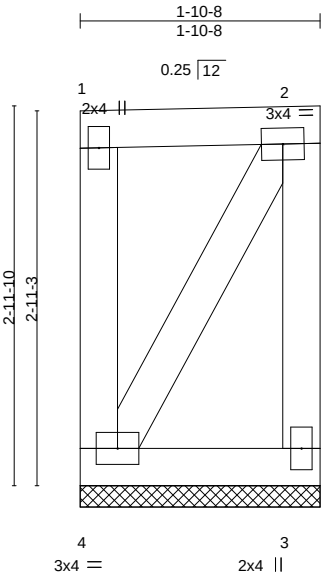
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE21	Blocking Supported	3	1	I50440472
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:32 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-qRIhcK4pjzbRQFSgqrCItnY8I64MR07n4djbLozhuDD



Scale = 1:18.0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 13 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=81(LC 13)
Max Uplift 4=-70(LC 10), 3=-64(LC 11)
Max Grav 4=103(LC 26), 3=95(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-204/258

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

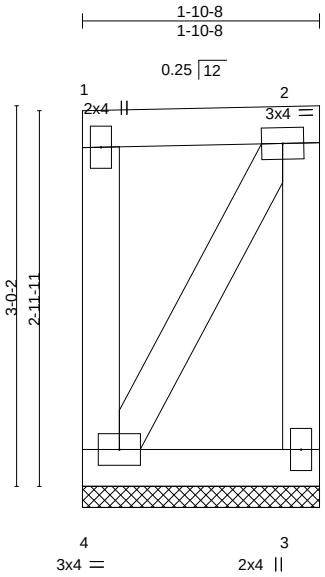
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE22	Blocking Supported	3	1	I50440473
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:33 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-Ids3qg5RUHjI2P1tOZjXQ_5J?VPbATMwJHT8tFzhuDC



Scale = 1:18.2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=82(LC 11)
Max Uplift 4=-72(LC 10), 3=-66(LC 11)
Max Grav 4=105(LC 26), 3=97(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-209/264

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

February 25,2022

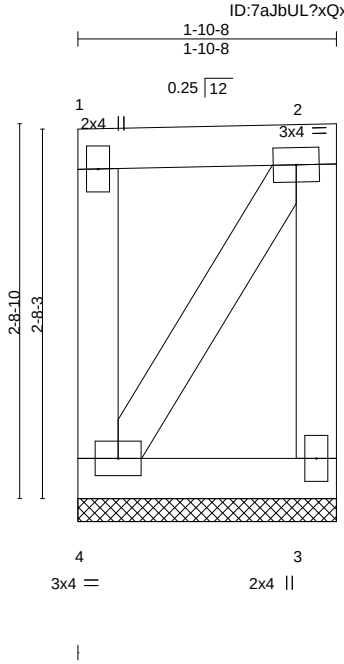
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE23	Blocking Supported	3	1	I50440474
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:34 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-mqQR1053Fbr9fZc3yGEmyCdU3vlqvwj4XxCiPhzhuDB



Scale = 1:16.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=74(LC 11)
Max Uplift 4=-58(LC 10), 3=-52(LC 11)
Max Grav 4=94(LC 26), 3=86(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

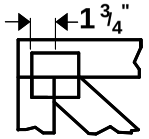
February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

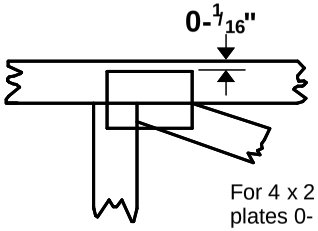
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

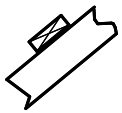
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

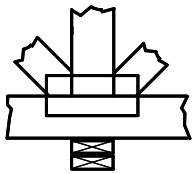
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

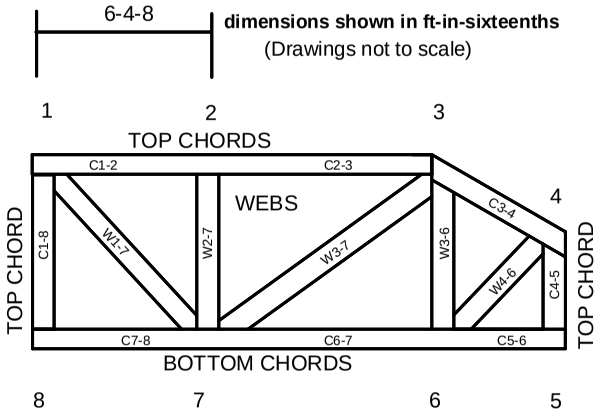


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

© 2012 MiTek® All Rights Reserved

MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 2

Building 3

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: October 4, 2021

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Foundation Rebar Shop Drawings	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Building 3

Brinkmann CONSTRUCTORS

Employee-Owned

TRANSMITTAL

Kolten Ragan, Project Engineer
Brinkmann Constructors
11101 Switzer Road, Suite 310
Overland Park, KS 66210

Date: 3/1/2022

To:
TR,i Architects
Attn: Michaela Silva
1790 S Brentwood Blvd
St. Louis, MO 63144

Re: **Vanguard Villas**
2100 NW Lowenstein Dr.
Lee's Summit, MO 64081
Job #: 1399

We are sending:

- ☐ Product Data
- ☐ Reports
- ☑ Shop Drawings
- ☐ Samples
- ☐ Other

Transmitted as checked:

- ☑ For Approval
- ☐ For Your Use
- ☐ As Requested
- ☐ Approved as Submitted
- ☐ Other

Transmitted via:

- ☑ Via email (PDF)
- ☐ Copies to follow (USPS/Ground)

Submittal Number	Description	Date Submitted	Due Date
061753-4	Group 3 Floor & Roof Truss - SD	3/1/2022	3/8/2022

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 3/14/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TR,i ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

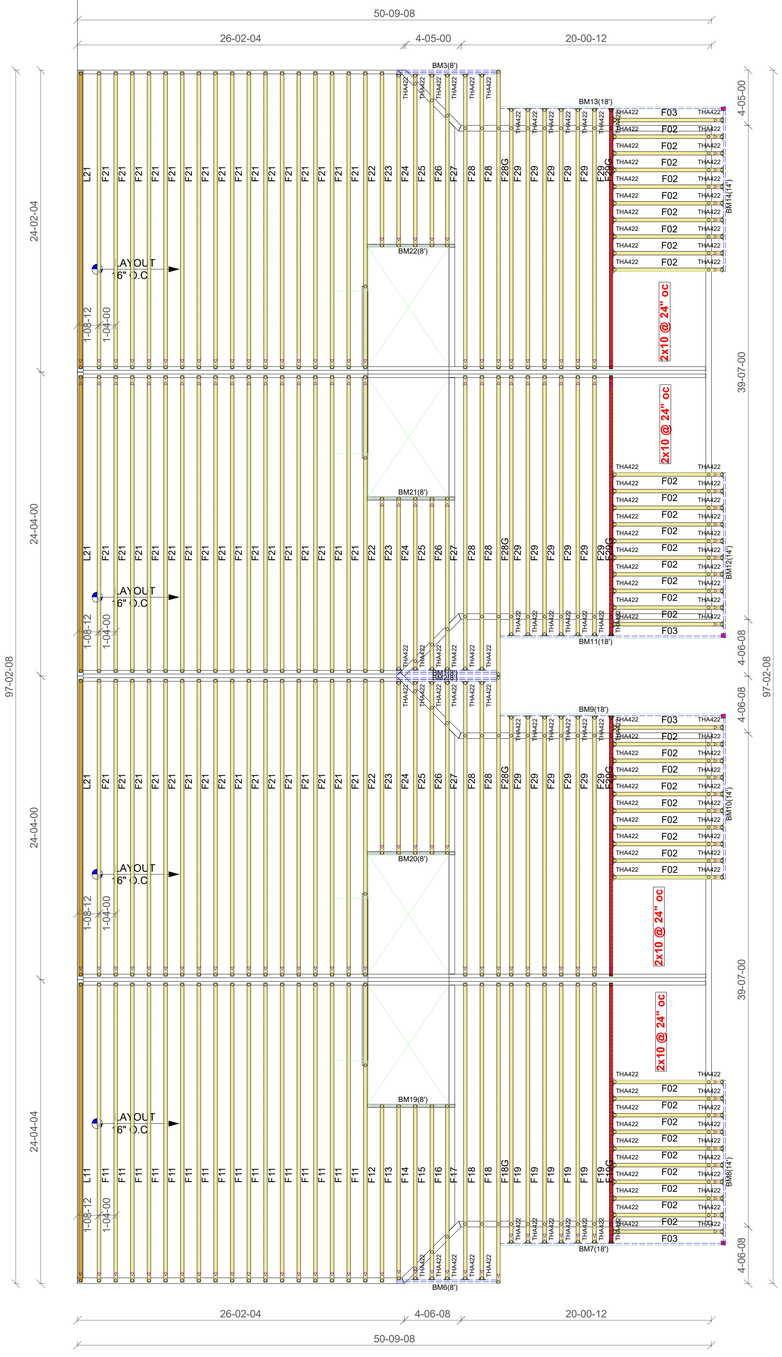
Brinkmann Approval	
Submittals bearing this stamp have been verified or will be verified as to materials, field measurements and construction criteria related thereto and have been coordinated with the Contract Documents. The Sub-contractor is responsible to the General Contractor for dimensions to be confirmed and correlated at the job site, and for information that pertains to the fabrication process or to the technique of construction and for coordination of the work with all trades.	
By: Kolten Ragan	**Date:** 3/1/2022

Brinkmann Comments in Green

Group 3 2nd Floor Plan

4-Plex Building

Truss Connector Total List		
Manuf	Product	Qty
	THA422	131



9-1-2 WALL HEIGHTS U.N.O.

Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM11(18')	18-00-00	1 3/4" x 18" 2.0E Microllam® LVL	1	1	MFD
BM13(18')	18-00-00	1 3/4" x 18" 2.0E Microllam® LVL	1	1	MFD
BM7(18')	18-00-00	1 3/4" x 18" 2.0E Microllam® LVL	1	1	MFD
BM9(18')	18-00-00	1 3/4" x 18" 2.0E Microllam® LVL	1	1	MFD
BM10(14')	14-00-00	1 3/4" x 18" 2.0E Microllam® LVL	1	1	MFD
BM12(14')	14-00-00	1 3/4" x 18" 2.0E Microllam® LVL	1	1	MFD
BM14(14')	14-00-00	1 3/4" x 18" 2.0E Microllam® LVL	1	1	MFD
BM8(14')	14-00-00	1 3/4" x 18" 2.0E Microllam® LVL	1	1	MFD
BM1(8')	8-00-00	1 3/4" x 18" 2.0E Microllam® LVL	2	2	MFD
BM2(8')	8-00-00	1 3/4" x 18" 2.0E Microllam® LVL	2	2	MFD
BM3(8')	8-00-00	1 3/4" x 18" 2.0E Microllam® LVL	2	2	MFD
BM6(8')	8-00-00	1 3/4" x 18" 2.0E Microllam® LVL	2	2	MFD
BM19(8')	8-00-00	2x12 HF No.2	2	2	MFD
BM20(8')	8-00-00	2x12 HF No.2	2	2	MFD
BM21(8')	8-00-00	2x12 HF No.2	2	2	MFD
BM22(8')	8-00-00	2x12 HF No.2	2	2	MFD

Floor Information
First Floor Area: 0 ft²
Second Floor Area: 4537.31

FLOOR TRUSS LAYOUT (NTS)

Thank you for giving us the opportunity to serve you. We appreciate your business and the confidence you have placed in us. Please call us if we can be of further assistance.

Model Name:		2100 NW Lowenstein Dr		Lot	
Address:		Lee Summit,	Mo	64063	Lot / Blk:
Subdivision:					

Brinkmann Constructors

Job Name:		G03F			
Structure Ref #:					
Designer:	Juan Quiroz				
OT Ref #:	J220198	Status:	Order	Date:	2/28/2022

Mill Creek Truss
Building Dreams from Generation to Generation
3363 S Halstead Rd
Halstead, KS 67056
Office: 316-830-6108

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED, REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS
DATE 03/08/2022 BY cb

NOTE:
Yellow ID Tag
Location Indicates
Left/Front/Bottom
of Truss

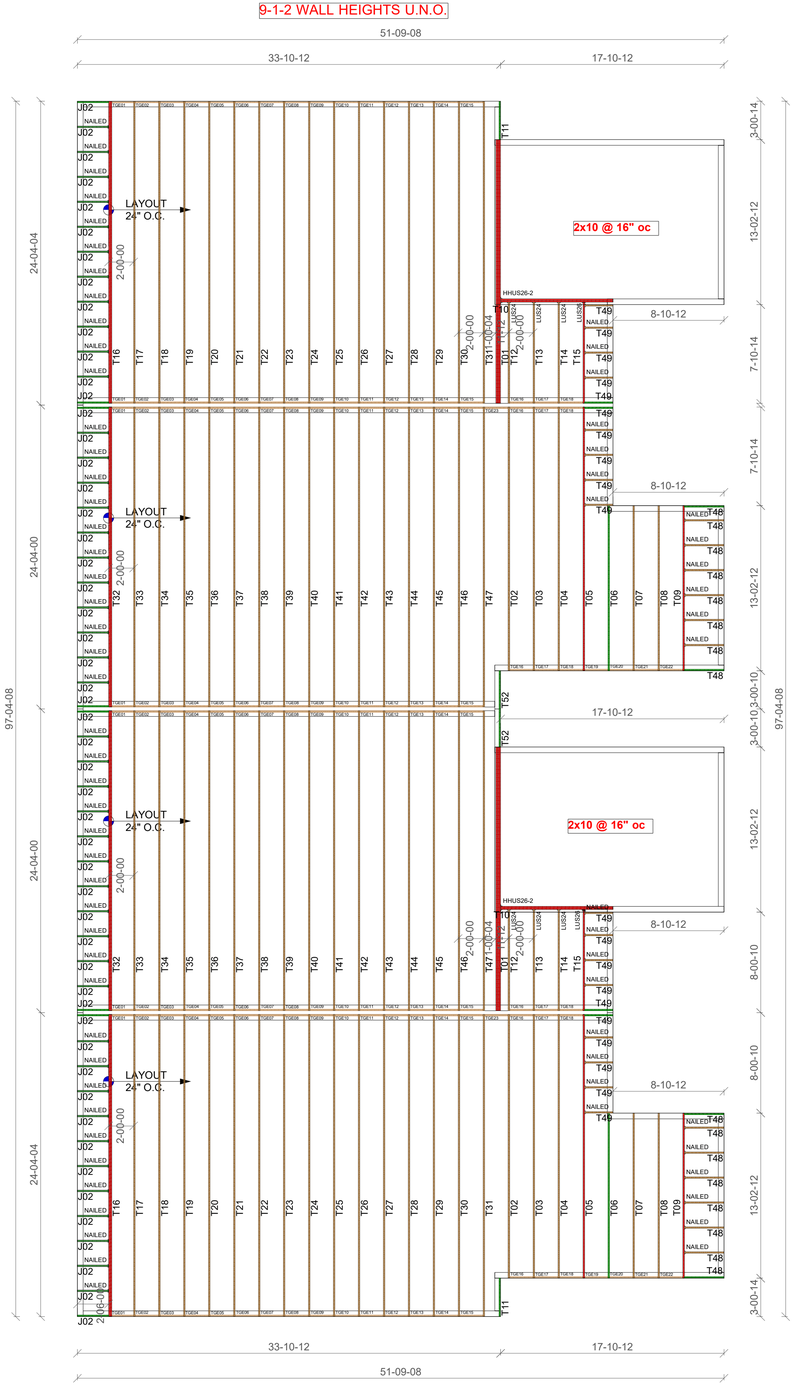
DO NOT Erect BWRDS/Upside Down, Cut, Alter, Installed Trusses!

Building 3

Group 3 Roof Plan

4-Plex Building

9-1-2 WALL HEIGHTS U.N.O.



Truss Connector Total List		
Manuf	Product	Qty
	HHUS26-2	2
	LUS24	6
Simpson	LUS26	2

Roof Information

Roof Area: 4547.15
Ridge Line: 0
Hip Line: 0
Horiz Eave Line: 294.63
Raked Eave Line:168.65
Valley Line: 0

FLOOR TRUSS LAYOUT (NTS)

Thank you for giving us the opportunity to serve you. We appreciate your business and the confidence you have placed in us.

Please call us if we can be of further assistance.

Model Name:		2100 NW Lowenstein Dr	Lot:
Address:		Lee Summit, Mo 64063	Lot / Blk:
Subdivision:			

Brinkmann Constructors

Job Name:		G03R	
Structure Ref #:			
Designer:	Juan Quiroz		
OT Ref #:	J220198	Status: Order	Date: 2/28/2022

Mill Creek Truss
Building Dreams Between Partners and Customers
3363 S Halstead Rd
Halstead, KS 67056
Office: 316-830-6108

NOTE:
Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

DO NOT Erect BWRDS/Upside Down, Cut, Alter, Installed Trusses!

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

RE: J220198-G03F - Brinkmann Constructors

Site Information:

Project Customer: Valued customer Project Name: BRINKMANN CONSTRUCTORS
Lot/Block: Subdivision:
Model:
Address: 2100 NW Lowenstein Dr
City: Lee Summit State: Mo

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IBC2018/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: N/A Wind Speed: N/A mph Design Method: N/A
Roof Load: N/A psf Floor Load: 75.0 psf

Mean Roof Height (feet): N/A Exposure Category: N/A

No.	Seal#	Truss Name	Date
1	I50479032	F02	3/1/22
2	I50479033	F03	3/1/22
3	I50479034	F11	3/1/22
4	I50479035	F12	3/1/22
5	I50479036	F13	3/1/22
6	I50479037	F14	3/1/22
7	I50479038	F15	3/1/22
8	I50479039	F16	3/1/22
9	I50479040	F17	3/1/22
10	I50479041	F18	3/1/22
11	I50479042	F18G	3/1/22
12	I50479043	F19	3/1/22
13	I50479044	F19G	3/1/22
14	I50479045	F21	3/1/22
15	I50479046	F22	3/1/22
16	I50479047	F23	3/1/22
17	I50479048	F24	3/1/22
18	I50479049	F25	3/1/22
19	I50479050	F26	3/1/22
20	I50479051	F27	3/1/22
21	I50479052	F28	3/1/22
22	I50479053	F28G	3/1/22
23	I50479054	F29	3/1/22
24	I50479055	F29G	3/1/22
25	I50479056	L11	3/1/22
26	I50479057	L21	3/1/22

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 03/08/2022 BY: cb

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 3/14/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRi ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mill Creek Truss, LLC.

Truss Design Engineer's Name: Sevier, Scott
My license renewal date for the state of Missouri is December 31, 2023.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

March 1,2022
Sevier, Scott

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F02	Floor	36	1	I50479032
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:38 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-AR7iPGvi6pN1VKW3uHXwX3QHn9dAH6T6FNdjl6zgdgl

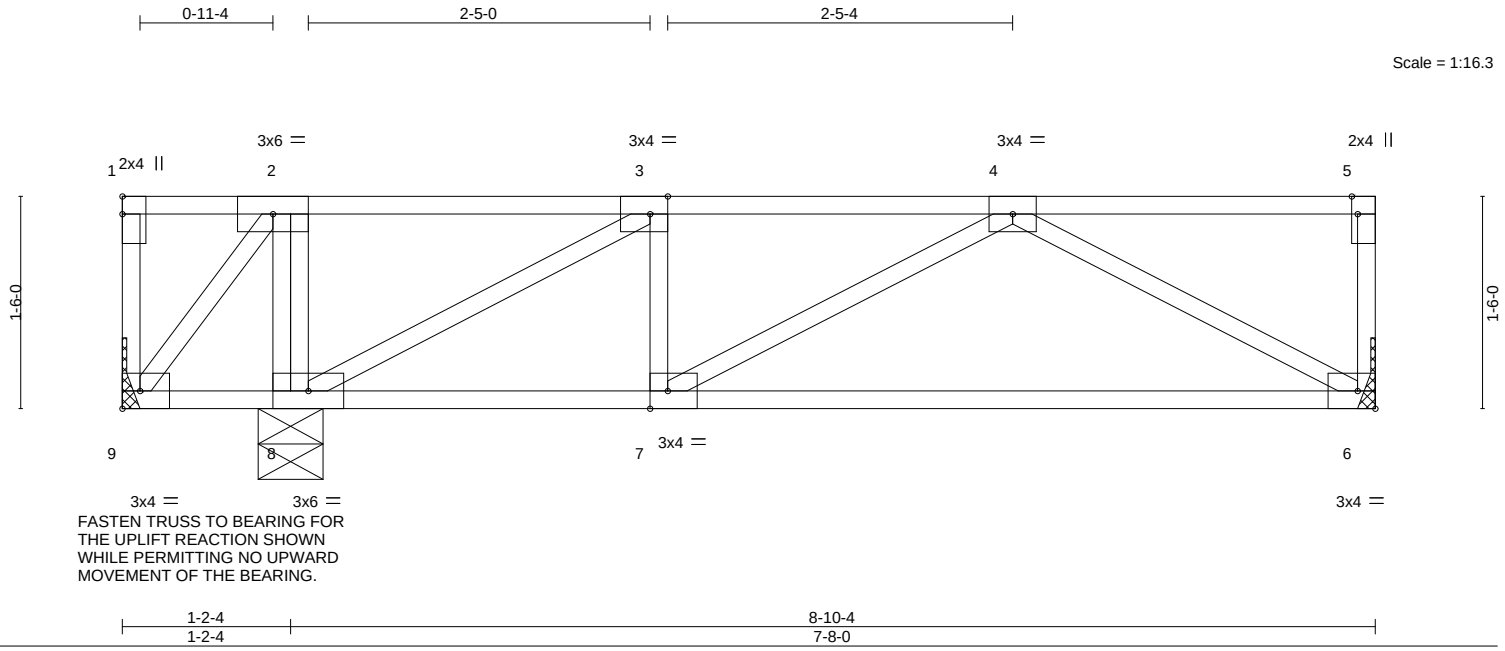


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [5:0-1-8,Edge], [7:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.01	6-7	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.29	Vert(CT)	-0.09	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 38 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 9=Mechanical, 6=Mechanical, 8=0-5-8
Max Uplift 9=-222(LC 4)
Max Grav 6=343(LC 1), 8=721(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-393/0
BOT CHORD 7-8=0/393, 6-7=0/417
WEBS 2-8=-407/0, 2-9=0/274, 4-6=-476/0, 3-8=-641/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 222 lb uplift at joint 9.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

March 1,2022

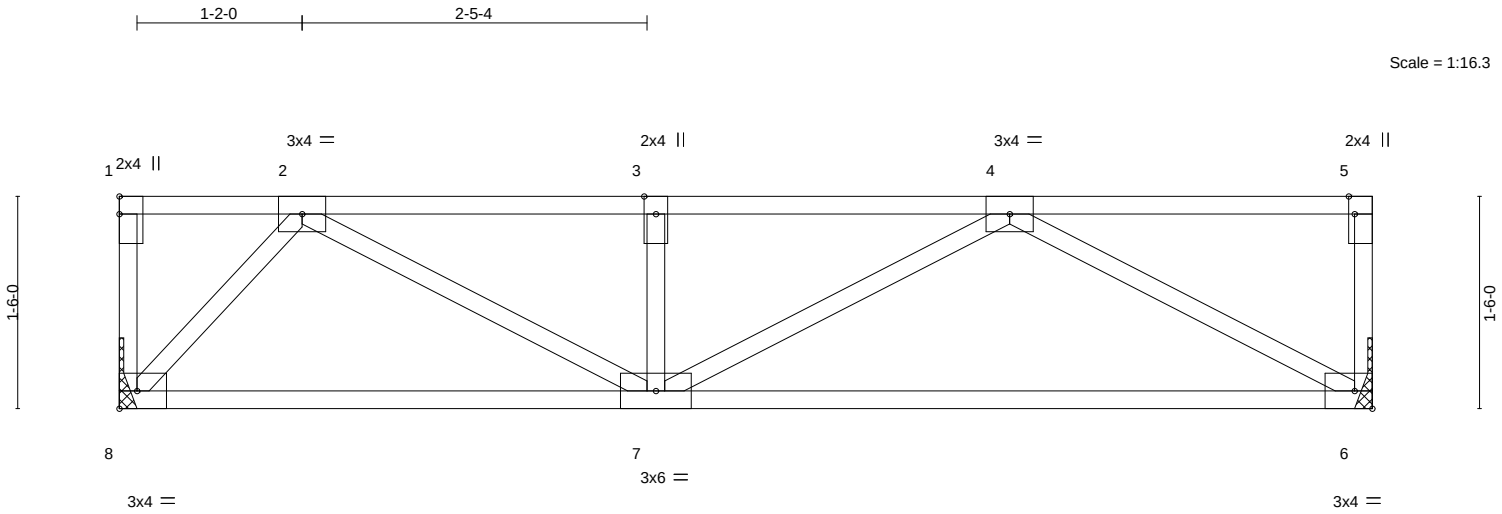
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F03	Floor	4	1	I50479033
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:39 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-eeh4ccwKt7Vu7U4GS?294HzSWZyo0YcGT1NGIYzgdgk



0-1-8 8-10-4
0-1-8 8-8-12

Plate Offsets (X,Y)-- [5:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.01	7	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.09	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 8=Mechanical
Max Grav 6=436(LC 1), 8=436(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-731/0, 3-4=-731/0
BOT CHORD 7-8=0/354, 6-7=0/587
WEBS 4-6=-670/0, 2-7=0/430, 2-8=-531/0

NOTES-
1) Refer to girder(s) for truss to truss connections.
2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 1,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F11	Floor	16	1	I50479034
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:40 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-6qFSqyxydRdllefS0iZOcUWTnyDclvLPih6qq_zgdgj

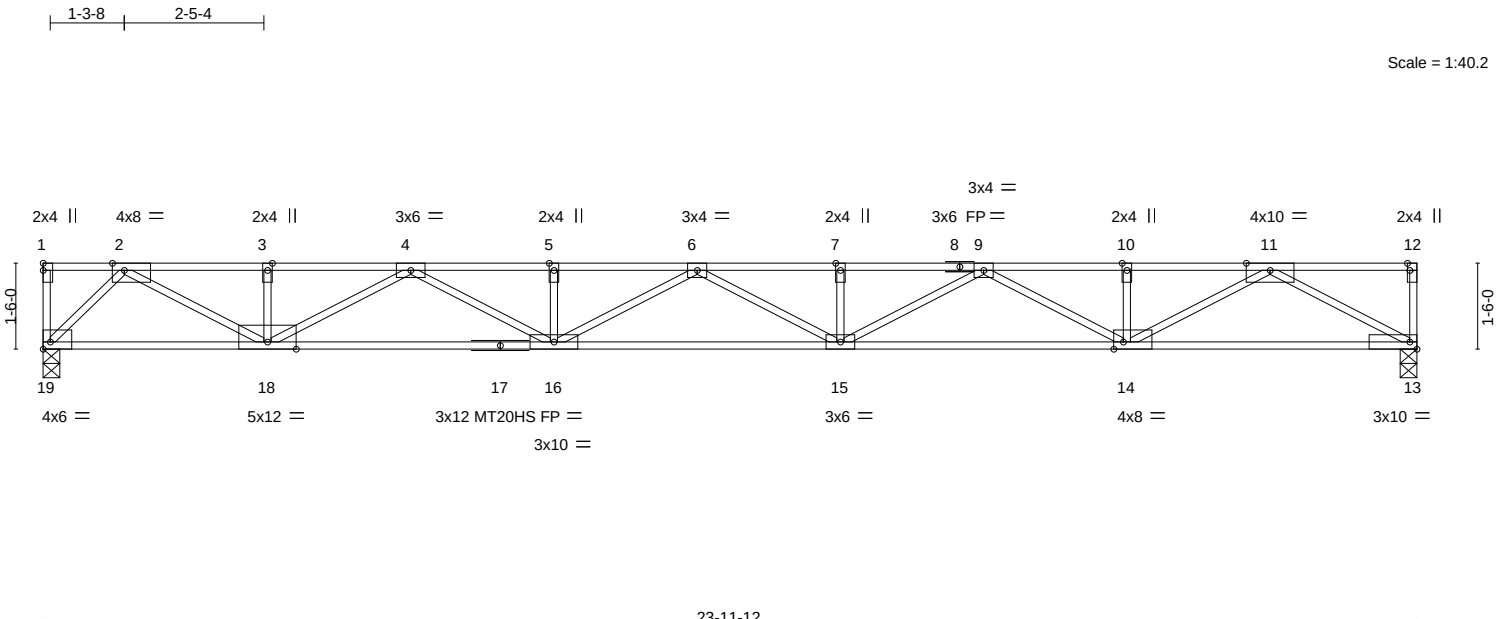


Plate Offsets (X,Y)-- [2:0-2-8,Edge], [12:0-1-8,Edge], [14:0-2-0,Edge], [19:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.38	15-16	>753	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.74	15-16	>389	360	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.10	13	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 93 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-3-8, 19=0-3-8
Max Grav 13=1193(LC 1), 19=1193(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2845/0, 3-4=-2845/0, 4-5=-4866/0, 5-6=-4866/0, 6-7=-5071/0, 7-9=-5071/0, 9-10=-3471/0, 10-11=-3471/0
BOT CHORD 18-19=0/1124, 16-18=0/4056, 15-16=0/5170, 14-15=0/4474, 13-14=0/1960
WEBS 11-13=-2237/0, 11-14=0/1724, 9-14=-1145/0, 9-15=0/681, 6-16=-348/0, 4-16=0/924, 4-18=-1381/0, 2-18=0/1965, 2-19=-1601/0

NOTES-
1) All plates are MT20 plates unless otherwise indicated.
2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 1,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F12	Floor	1	1	I50479035
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:40 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-6qFSqyxydRdllefS0iZOcUWX4yBRlvKPih6qq_zgdgj

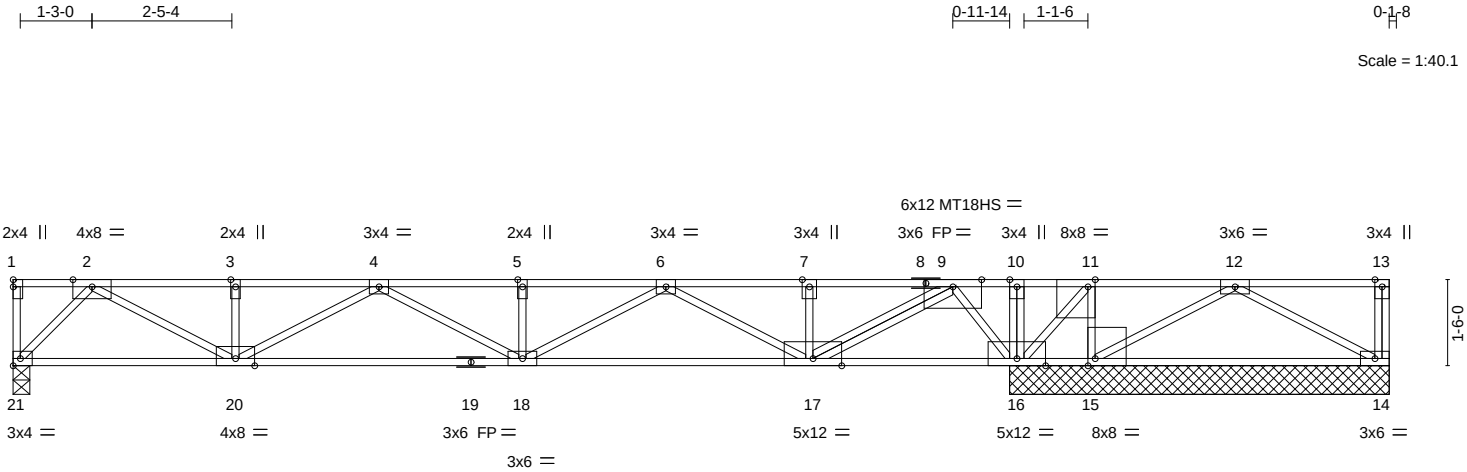


Plate Offsets (X,Y)-- [11:0-1-8,Edge], [15:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.08	18-20	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.23	17-18	>896	360	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.03	16	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 101 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat) *Except* 8-13: 2x4 SPF 2100F 1.8E(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 21=0-3-8, 14=6-7-6, 15=6-7-6, 16=6-7-6
Max Uplift 14=-246(LC 1), 15=-1295(LC 1)
Max Grav 21=830(LC 1), 16=4351(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1820/0, 3-4=-1820/0, 4-5=-2545/0, 5-6=-2545/0, 6-7=-1423/0, 7-9=-1349/0, 9-10=0/3794, 10-11=0/3794, 11-12=0/1796
BOT CHORD 20-21=0/745, 18-20=0/2379, 17-18=0/2193, 16-17=-1942/0, 15-16=-1796/0, 14-15=-672/0
WEBS 2-21=-1080/0, 2-20=0/1227, 4-20=-638/0, 6-18=0/401, 6-17=-874/0, 7-17=-1473/0, 9-17=0/3819, 12-14=0/762, 12-15=-1283/0, 11-15=0/1970, 11-16=-2910/0, 9-16=-2798/0

NOTES-
1) All plates are MT20 plates unless otherwise indicated.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 14 and 1295 lb uplift at joint 15.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-21=-13, 1-13=-87
Concentrated Loads (lb)
Vert: 7=-1260
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-21=-13, 1-13=-87

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F12	Floor	1	1	I50479035 Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-1260

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F13	Floor	1	1	I50479036
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:41 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-a0pq1IxaOklcMoEeZQ4d9i2oFMaFUQ4YxLsNMRzgdgi

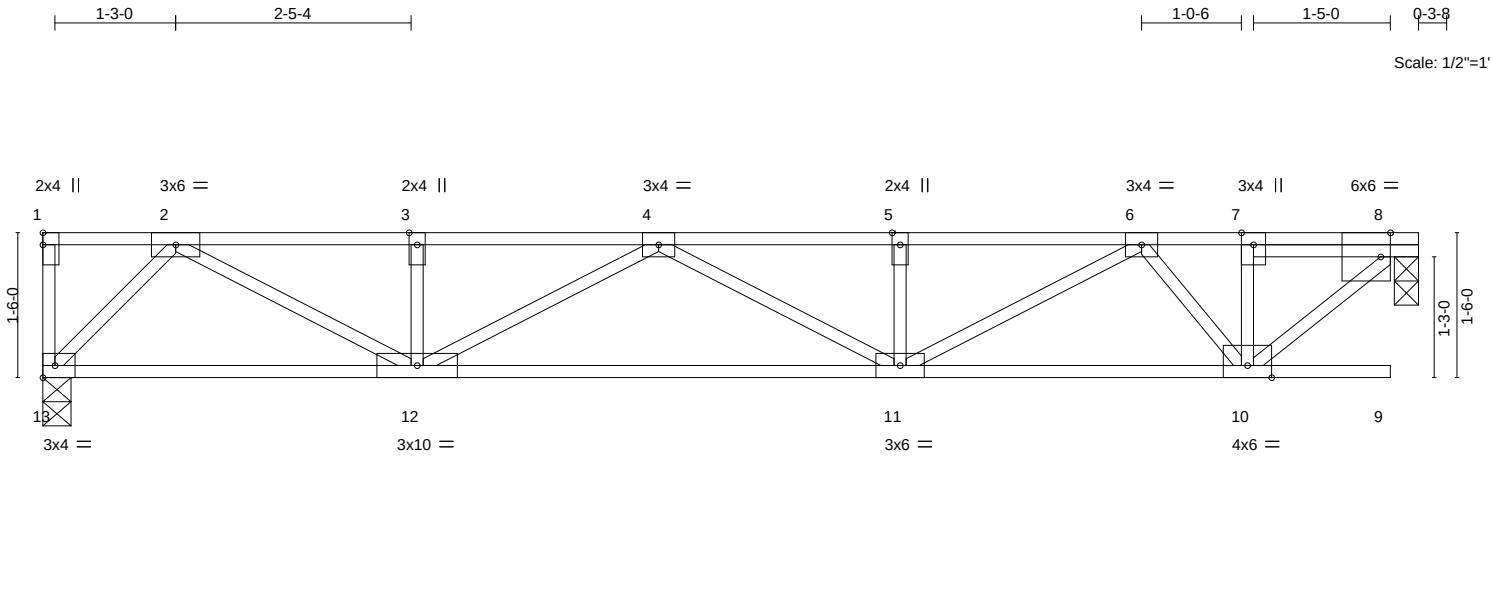


Plate Offsets (X,Y)-- [8:0-1-3,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.05	11-12	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.14	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 58 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-3-8, 8=0-3-0
Max Grav 13=694(LC 1), 8=694(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1446/0, 3-4=-1446/0, 4-5=-1671/0, 5-6=-1671/0, 6-7=-677/0, 7-8=-680/0
BOT CHORD 12-13=0/616, 11-12=0/1753, 10-11=0/1082
WEBS 2-13=-892/0, 2-12=0/947, 4-12=-351/0, 6-11=0/672, 6-10=-650/0, 8-10=0/905

NOTES-
1) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
4) CAUTION, Do not erect truss backwards.

March 1,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F14	FLOOR	1	1	I50479037
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:42 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-3DMDFeyC92tT_ypq77bshvby2mxjDtFiA?bxutzgdgh

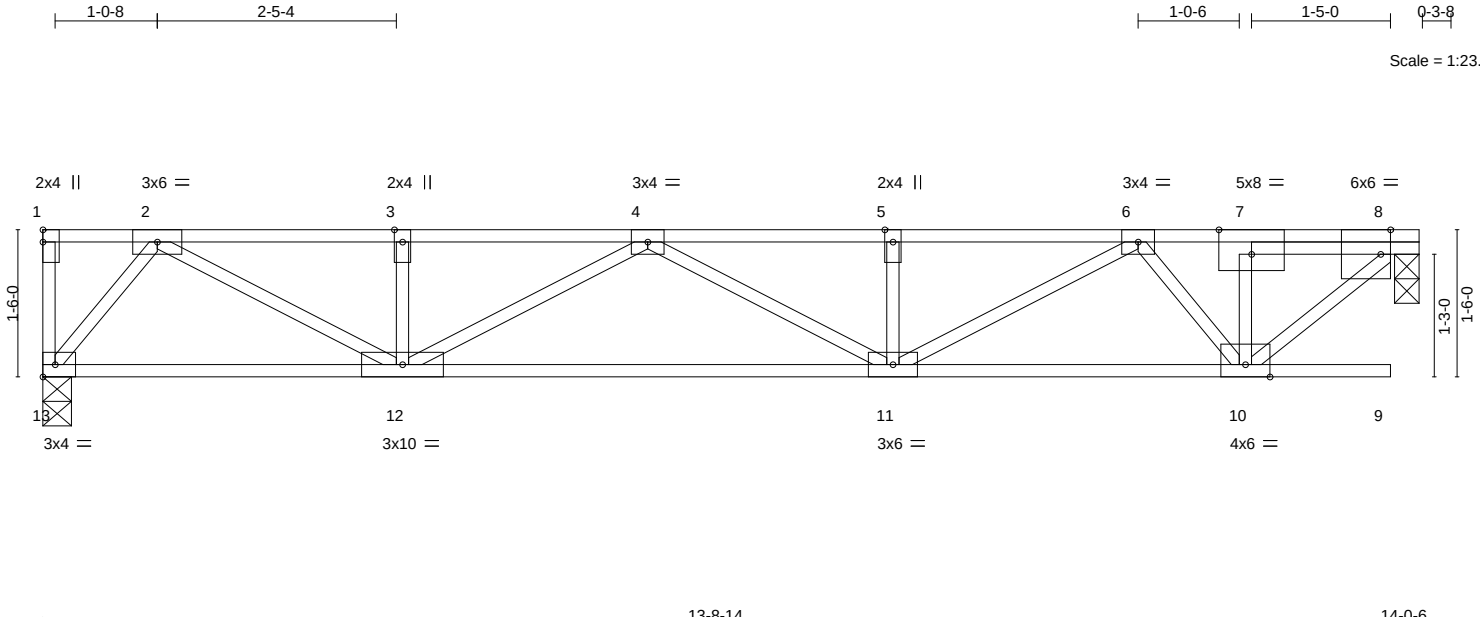


Plate Offsets (X,Y)-- [7:0-4-0,Edge], [8:0-1-3,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.05	11-12	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.14	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-3-8, 8=0-3-0
Max Grav 13=684(LC 1), 8=684(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1369/0, 3-4=-1369/0, 4-5=-1632/0, 5-6=-1632/0, 6-7=-695/0, 7-8=-699/0
BOT CHORD 12-13=0/522, 11-12=0/1695, 10-11=0/1062
WEBS 8-10=0/935, 6-10=-592/0, 6-11=0/650, 4-12=-373/0, 2-12=0/966, 2-13=-834/0

NOTES-
1) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
4) CAUTION, Do not erect truss backwards.

March 1,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

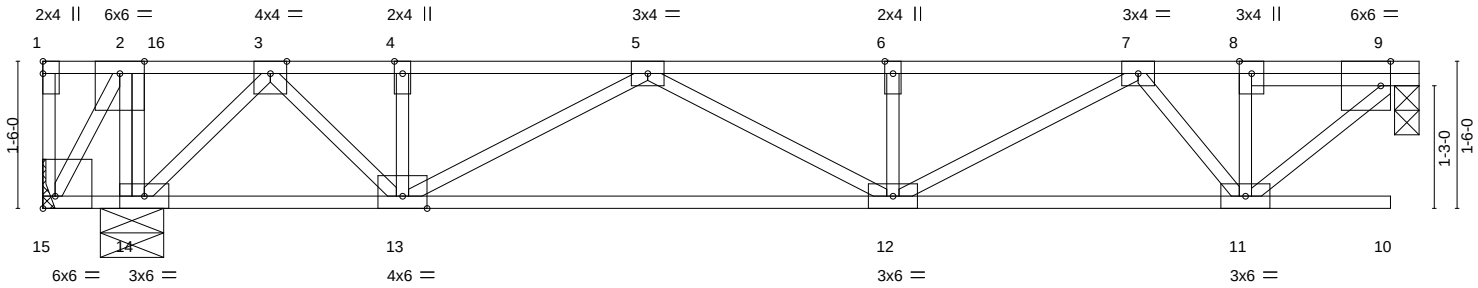
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F15	FLOOR	1	1	I50479038
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:42 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-3DMDFeyC92tT_ypq77bshvbxHmzMDsdiA?bxutzgdgh

Scale = 1:23.5



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

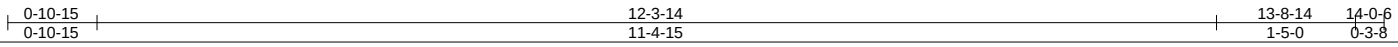


Plate Offsets (X,Y)-- [9:0-1-3,Edge], [15:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.03	12-13	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.40	Vert(CT)	-0.10	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	-0.00	9	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 61 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 15=Mechanical, 14=0-7-12, 9=0-3-0
Max Uplift 15=-1150(LC 4)
Max Grav 14=1930(LC 1), 9=564(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/699, 3-4=-484/0, 4-5=-484/0, 5-6=-1192/0, 6-7=-1192/0, 7-8=-537/0, 8-9=-540/0
BOT CHORD 14-15=-699/0, 12-13=0/1040, 11-12=0/839
WEBS 2-15=0/1333, 9-11=0/718, 7-11=-484/0, 7-12=0/404, 5-13=-635/0, 3-14=-907/0, 3-13=0/761, 2-14=-1267/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1150 lb uplift at joint 15.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
8) CAUTION, Do not erect truss backwards.

March 1,2022

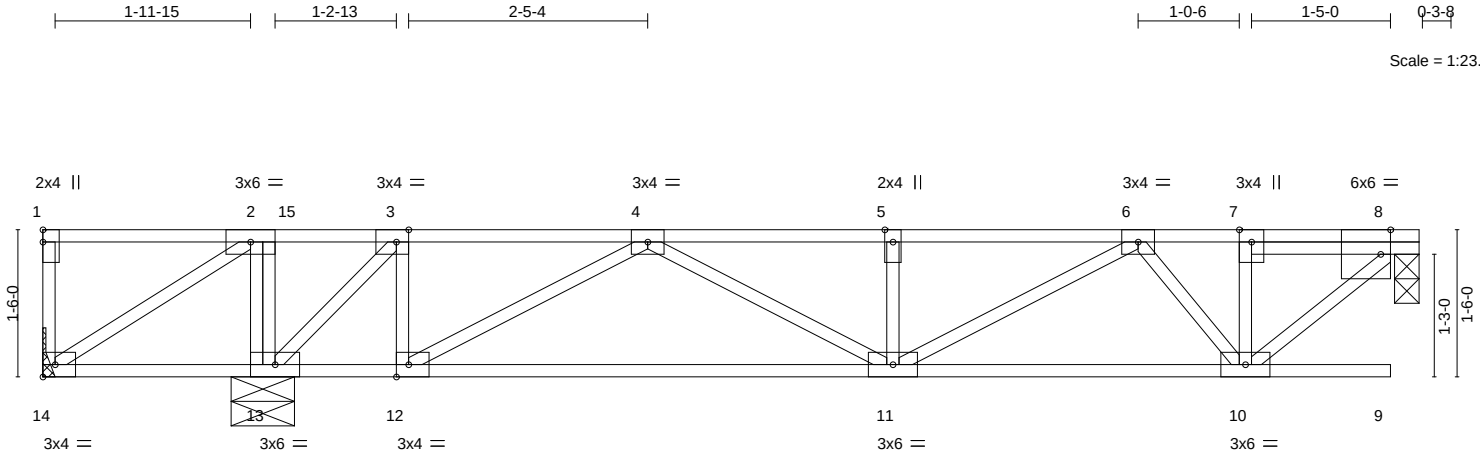
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F16	FLOOR	1	1	I50479039
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:43 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-XPwbS_zrwM?Kc5O1hr75E786QAK2yLcrOfLURJzgdgg



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

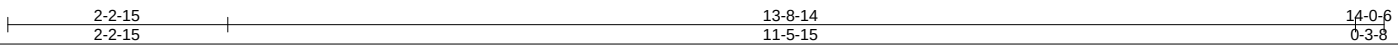


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [8:0-1-3,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.02	11	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.31	Vert(CT)	-0.08	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 60 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14.

REACTIONS. (size) 14=Mechanical, 13=0-7-12, 8=0-3-0
Max Uplift 14=-340(LC 4)
Max Grav 13=1153(LC 1), 8=501(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/601, 4-5=-957/0, 5-6=-957/0, 6-7=-469/0, 7-8=-471/0
BOT CHORD 13-14=-601/0, 11-12=0/690, 10-11=0/719
WEBS 2-14=0/710, 8-10=0/627, 6-10=-402/0, 6-11=0/272, 4-11=0/305, 4-12=-771/0, 3-12=0/426, 3-13=-860/0, 2-13=-553/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 340 lb uplift at joint 14.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
7) CAUTION, Do not erect truss backwards.

March 1,2022

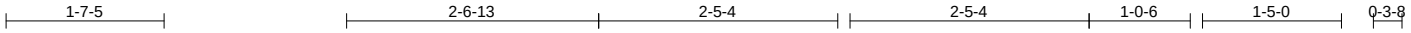
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

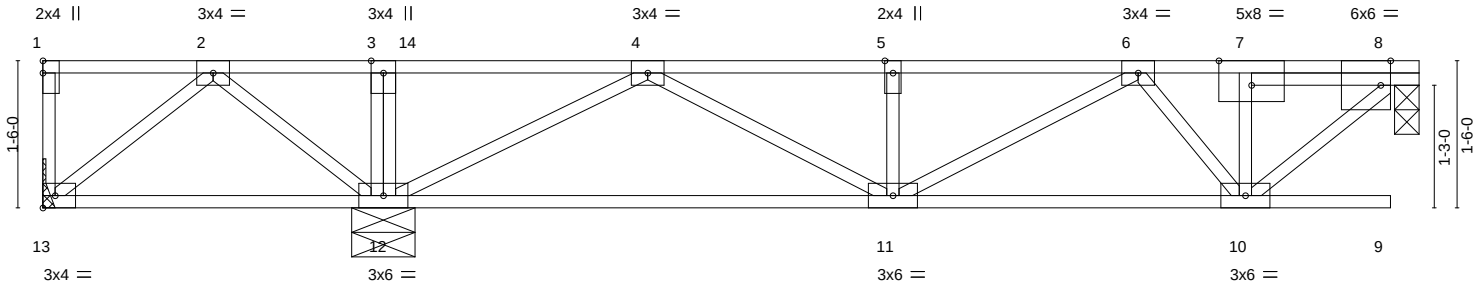
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F17	FLOOR	1	1	I50479040
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:43 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-XPwbS_zrwM?Kc5O1hr75E785AALxyLarOfLURJzgdgg



Scale = 1:23.5



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

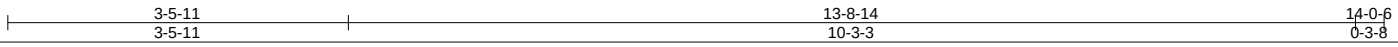


Plate Offsets (X,Y)-- [7:0-4-0,Edge], [8:0-1-3,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.02	11	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.25	Vert(CT)	-0.07	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 59 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.

REACTIONS. (size) 13=Mechanical, 12=0-7-12, 8=0-3-0
Max Uplift 13=-126(LC 4)
Max Grav 13=67(LC 3), 12=965(LC 1), 8=443(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/470, 3-4=0/473, 4-5=-746/0, 5-6=-746/0, 6-7=-425/0, 7-8=-429/0
BOT CHORD 11-12=0/378, 10-11=0/613
WEBS 8-10=0/573, 6-10=-303/0, 4-11=0/424, 4-12=-947/0, 2-13=0/262, 2-12=-420/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 13.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
7) CAUTION, Do not erect truss backwards.

March 1,2022

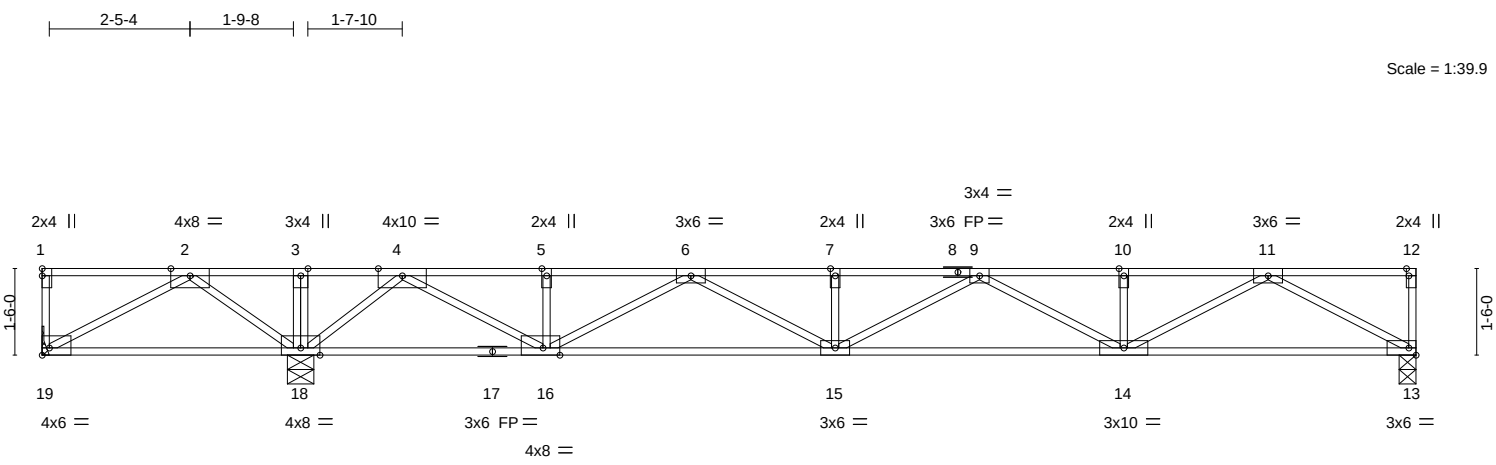
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F18	Floor	2	1	I50479041
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:44 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-?bUzgK_Thf7BDFzDFYeKnKg9DaZbhkH?dJ41zmzgdgf



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

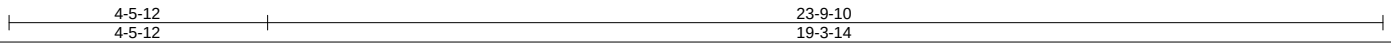


Plate Offsets (X,Y)-- [12:0-1-8,Edge], [16:0-3-8,Edge], [19:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.12	14-15	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.23	14-15	>984	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 13=0-3-8, 18=0-5-8, 19=Mechanical
Max Uplift 19=-633(LC 4)
Max Grav 13=795(LC 4), 18=2096(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/2338, 3-4=0/2338, 4-5=-533/0, 5-6=-533/0, 6-7=-2187/0, 7-9=-2187/0, 9-10=-2028/0, 10-11=-2028/0
BOT CHORD 18-19=-1251/0, 16-18=-1015/0, 15-16=0/1557, 14-15=0/2307, 13-14=0/1237
WEBS 2-19=0/1428, 2-18=-1468/0, 11-13=-1412/0, 11-14=0/903, 9-14=-318/0, 6-15=0/722, 6-16=-1171/0, 4-16=0/1749, 4-18=-1681/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 633 lb uplift at joint 19.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

March 1,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

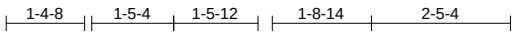
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	F18G	Floor Special	1	1	I50479042
					Job Reference (optional)

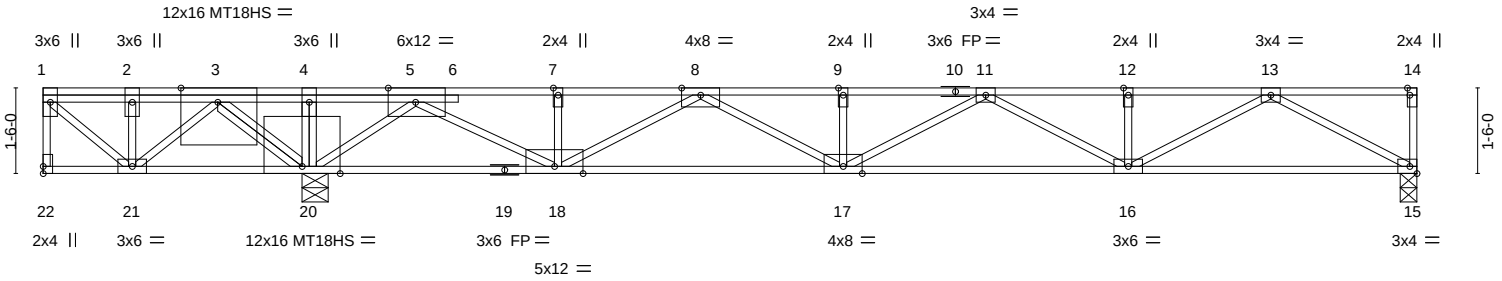
Mill Creek Truss, Halstead, KS 67056, Mitek

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 04:18:24 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-a1wTwwrPcYJj9JJ2nGkVgQUxOADofo34097JaazfP6D



Scale = 1:40.4



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

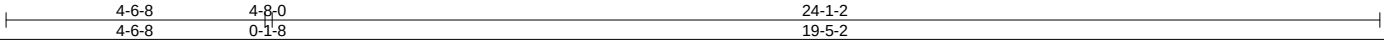


Plate Offsets (X,Y)-- [3:0-7-12,Edge], [5:0-5-12,Edge], [14:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.15	17	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	0.14	17	>999	360	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	-0.05	15	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 112 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SPF 2100F 1.8E(flat) *Except* 10-14: 2x4 SPF No.2(flat)
BOT CHORD	2x4 DF 2400F 2.0E(flat)
WEBS	2x4 SPF No.2(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 21-22.

REACTIONS. (lb/size) 15=513/0-3-8, 20=6884/0-5-8
Max Uplift 15=-4(LC 3)
Max Grav 15=542(LC 4), 20=6884(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	3-4=0/6609, 4-5=0/6609, 5-6=0/3791, 6-7=0/3804, 7-8=0/3804, 8-9=-355/1686, 9-10=-355/1686, 10-11=-355/1686, 11-12=-1112/399, 12-13=-1112/399
BOT CHORD	20-21=-406/0, 19-20=-5350/0, 18-19=-5350/0, 17-18=-2679/0, 16-17=-968/932, 15-16=-114/780
WEBS	4-20=-265/0, 13-15=-890/130, 13-16=-326/380, 11-16=0/648, 11-17=-820/0, 8-17=0/1303, 8-18=-1742/0, 5-18=0/2456, 5-20=-2307/0, 3-21=0/449, 3-20=-8130/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) The Fabrication Tolerance at joint 20 = 7%
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 15.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-22=-13, 1-14=-87
   Concentrated Loads (lb)
   Vert: 3=-5000
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-22=-13, 1-14=-87

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	F18G	Floor Special	1	1	I50479042
					Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-5000
3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-4=-87, 4-14=-33
Concentrated Loads (lb)
Vert: 3=-5000
4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-4=-33, 4-14=-87
Concentrated Loads (lb)
Vert: 3=-5000
5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-4=-87, 4-14=-33
Concentrated Loads (lb)
Vert: 3=-5000
6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-4=-33, 4-14=-87
Concentrated Loads (lb)
Vert: 3=-5000

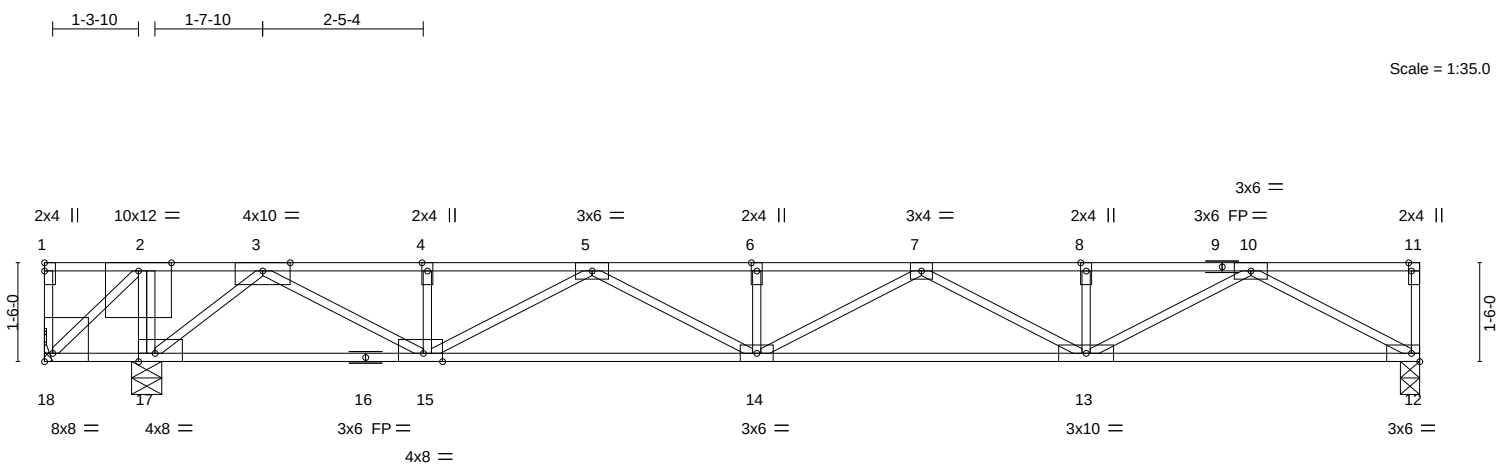
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F19	Floor	6	1	I50479043
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:46 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-x_cj4??jDHNuTZ7cMzgoslmW6NFw9Y6H4dZ82ezgdgd



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [15:0-3-8,Edge], [17:0-3-0,Edge], [18:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.12	13-14	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.24	13-14	>963	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 84 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 12=0-3-8, 18=Mechanical, 17=0-5-8
Max Uplift 18=-2061(LC 4)
Max Grav 12=801(LC 4), 17=3296(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/2230, 3-4=-604/0, 4-5=-604/0, 5-6=-2233/0, 6-7=-2233/0, 7-8=-2052/0, 8-10=-2052/0
BOT CHORD 17-18=-2230/0, 15-17=-919/0, 14-15=0/1615, 13-14=0/2342, 12-13=0/1249
WEBS 2-17=-2218/0, 2-18=0/3034, 10-12=-1425/0, 10-13=0/916, 7-13=-331/0, 5-14=0/705, 5-15=-1154/0, 3-15=0/1738, 3-17=-1665/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2061 lb uplift at joint 18.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 1,2022

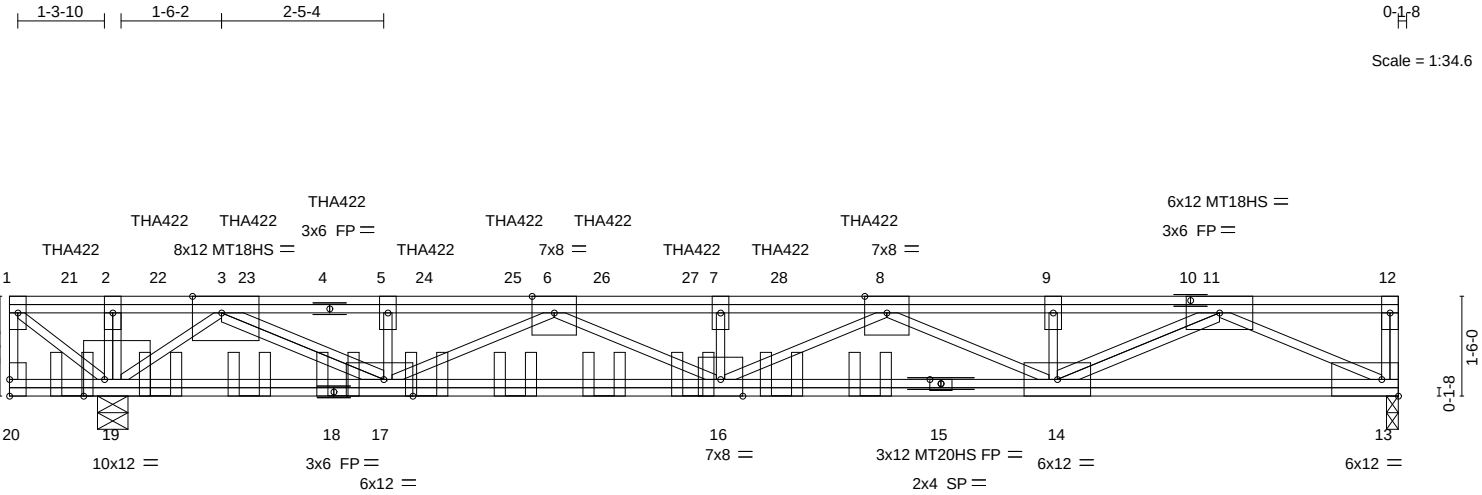
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F19G	Floor Girder	1	1	I50479044
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:47 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-PAA6IL0L_aVl4jiowgB1OzId9ncuu_RRJHJia4zgdgc



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

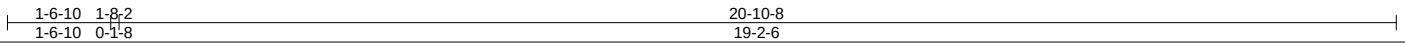


Plate Offsets (X,Y)-- [3:0-5-4,Edge], [17:0-5-4,Edge], [19:0-3-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.97	Vert(LL)	-0.29	16	>804	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.55	16	>419	360	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.07	13	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 139 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat) *Except*
18-20: 2x4 SPF No.2(flat), 13-18: 2x4 DF 2400F 2.0E(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-2-2, 19=0-5-8
Max Grav 13=2158(LC 4), 19=3607(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-7399/0, 5-6=-7453/0, 6-7=-10542/0, 7-8=-10542/0, 8-9=-7048/0, 9-11=-7028/0
BOT CHORD 17-19=0/3615, 16-17=0/9847, 14-16=0/9499, 13-14=0/4234
WEBS 2-19=-733/0, 11-13=-4625/0, 11-14=0/3172, 9-14=-308/0, 8-14=-2723/0, 8-16=0/1210, 7-16=-783/0, 6-16=0/785, 6-17=-2667/0, 5-17=-813/0, 3-17=0/4311, 3-19=-4555/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x6 MT20 unless otherwise indicated.
4) The Fabrication Tolerance at joint 15 = 11%
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.
9) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 1-4-0 oc max. starting at 0-11-4 from the left end to 12-11-4 to connect truss(es) to front face of top chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-20=-20, 1-12=-130
Concentrated Loads (lb)
Vert: 8=-257(F) 4=-257(F) 21=-350(F) 22=-257(F) 23=-257(F) 24=-257(F) 25=-257(F) 26=-257(F) 27=-257(F) 28=-257(F)

March 1,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F21	Floor	48	1	I50479045
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:48 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-tNkUVh1zludcitH_UOiGxArq1BycdXGaYx2F6Xzgdgb

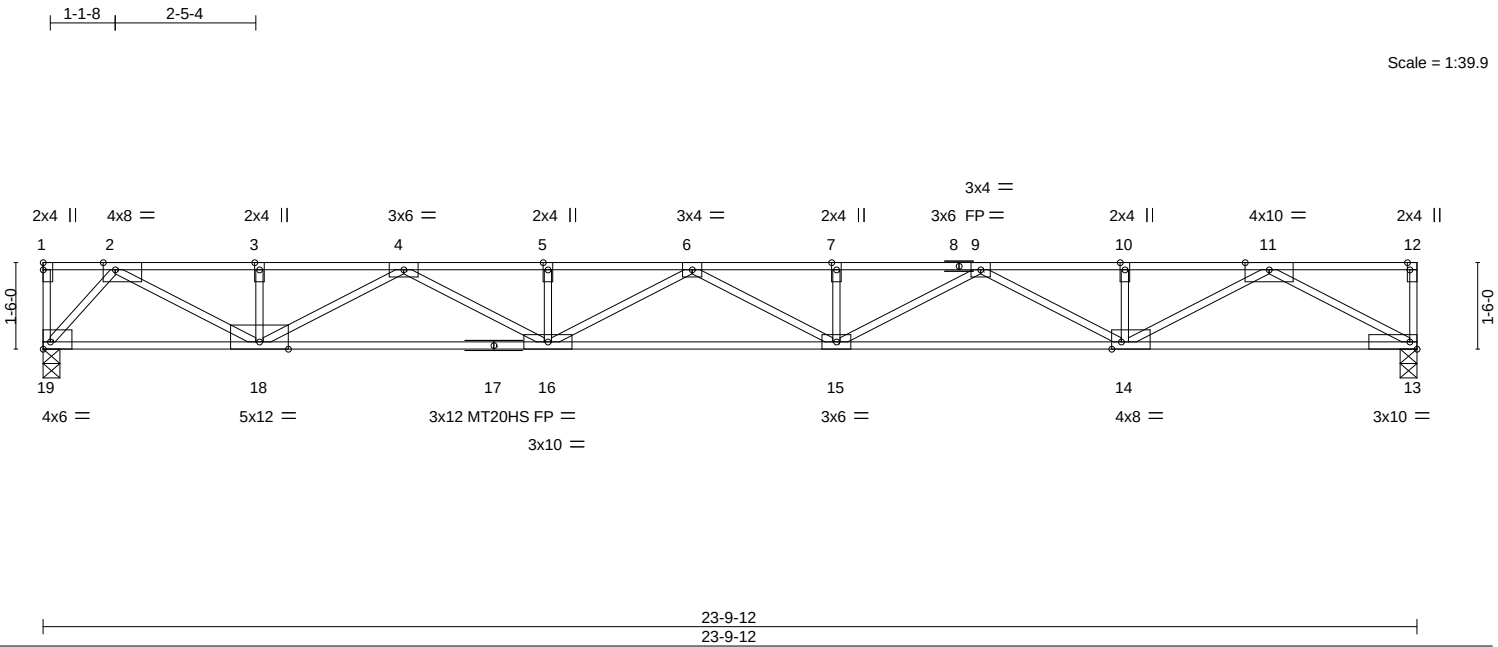


Plate Offsets (X,Y)-- [2:0-2-8,Edge], [12:0-1-8,Edge], [14:0-2-0,Edge], [19:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.37	15-16	>768	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.72	15-16	>397	360	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.10	13	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 93 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-3-8, 19=0-3-8
Max Grav 13=1184(LC 1), 19=1184(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2724/0, 3-4=-2724/0, 4-5=-4775/0, 5-6=-4775/0, 6-7=-5011/0, 7-9=-5011/0, 9-10=-3441/0, 10-11=-3441/0
BOT CHORD 18-19=0/989, 16-18=0/3949, 15-16=0/5095, 14-15=0/4429, 13-14=0/1945
WEBS 11-13=-2220/0, 11-14=0/1707, 9-14=-1128/0, 9-15=0/664, 6-16=-365/0, 4-16=0/942, 4-18=-1399/0, 2-18=0/1980, 2-19=-1512/0

NOTES-
1) All plates are MT20 plates unless otherwise indicated.
2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 1,2022

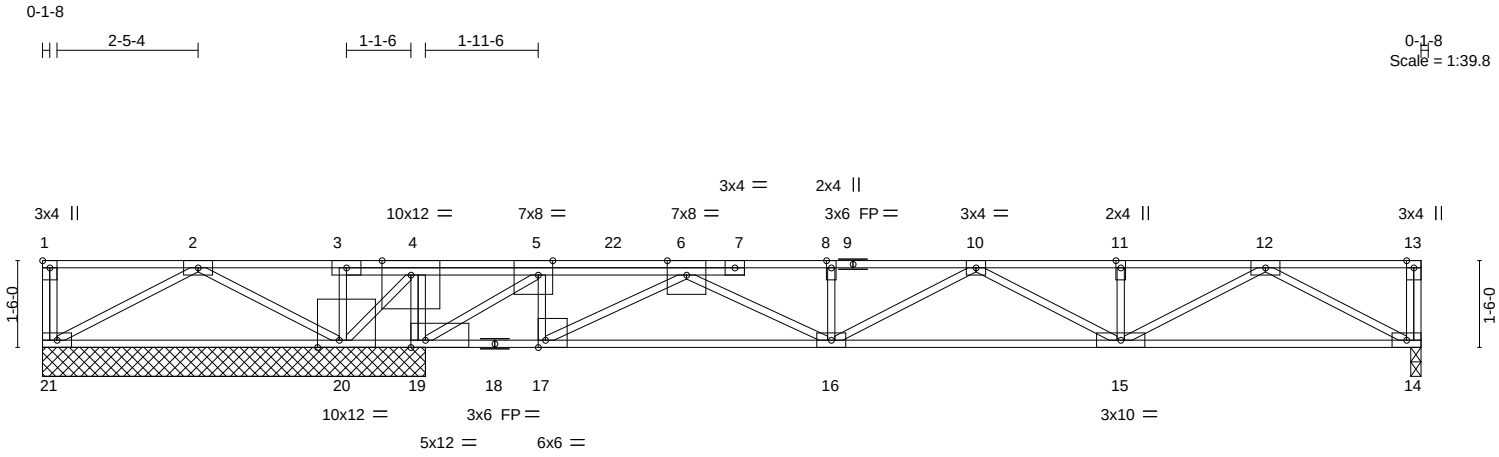
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F22	Floor	3	1	I50479046
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:48 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-tNkUVh1zludcitH_UOiGxArrZBw8dSQaYx2F6Xzgdgb



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-3-0,Edge], [17:0-1-8,Edge], [19:0-3-0,Edge], [20:0-4-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.07	15-16	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.22	15-16	>936	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.03	14	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 105 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E(flat) *Except* 9-13: 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-9-15 oc bracing.

REACTIONS. (size) 21=6-7-6, 20=6-7-6, 14=0-2-2, 19=6-7-6
Max Uplift 21=-365(LC 4), 20=-1521(LC 4)
Max Grav 14=803(LC 4), 19=4360(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/1793, 3-4=0/1795, 4-5=0/3928, 5-6=0/387, 6-8=-2219/0, 8-10=-2210/0, 10-11=-2071/0, 11-12=-2071/0
BOT CHORD 20-21=-791/0, 19-20=-3928/0, 17-19=-387/0, 16-17=0/1765, 15-16=0/2364, 14-15=0/1279
WEBS 4-19=-2167/0, 2-21=0/897, 2-20=-1281/0, 4-20=0/3077, 12-14=-1451/0, 12-15=0/904, 10-15=-335/0, 6-16=0/505, 6-17=-2421/0, 5-17=0/1168, 5-19=-4156/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 365 lb uplift at joint 21 and 1521 lb uplift at joint 20.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
7) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-21=-13, 1-13=-87
Concentrated Loads (lb)
Vert: 22=-1260

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F22	Floor	3	1	I50479046 Job Reference (optional)

LOAD CASE(S) Standard

2) Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 14-21=-13, 1-13=-87
   Concentrated Loads (lb)
   Vert: 22=-1260
3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 14-21=-13, 1-4=-87, 4-13=-33
   Concentrated Loads (lb)
   Vert: 22=-1260
4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 14-21=-13, 1-4=-33, 4-13=-87
   Concentrated Loads (lb)
   Vert: 22=-1260
5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 14-21=-13, 1-4=-87, 4-13=-33
   Concentrated Loads (lb)
   Vert: 22=-1260
6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 14-21=-13, 1-4=-33, 4-13=-87
   Concentrated Loads (lb)
   Vert: 22=-1260

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F23	Floor	3	1	I50479047
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:49 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-LZHsj12bWCmTK0rB15DVTOO8WbIrM28knbooezzgdga

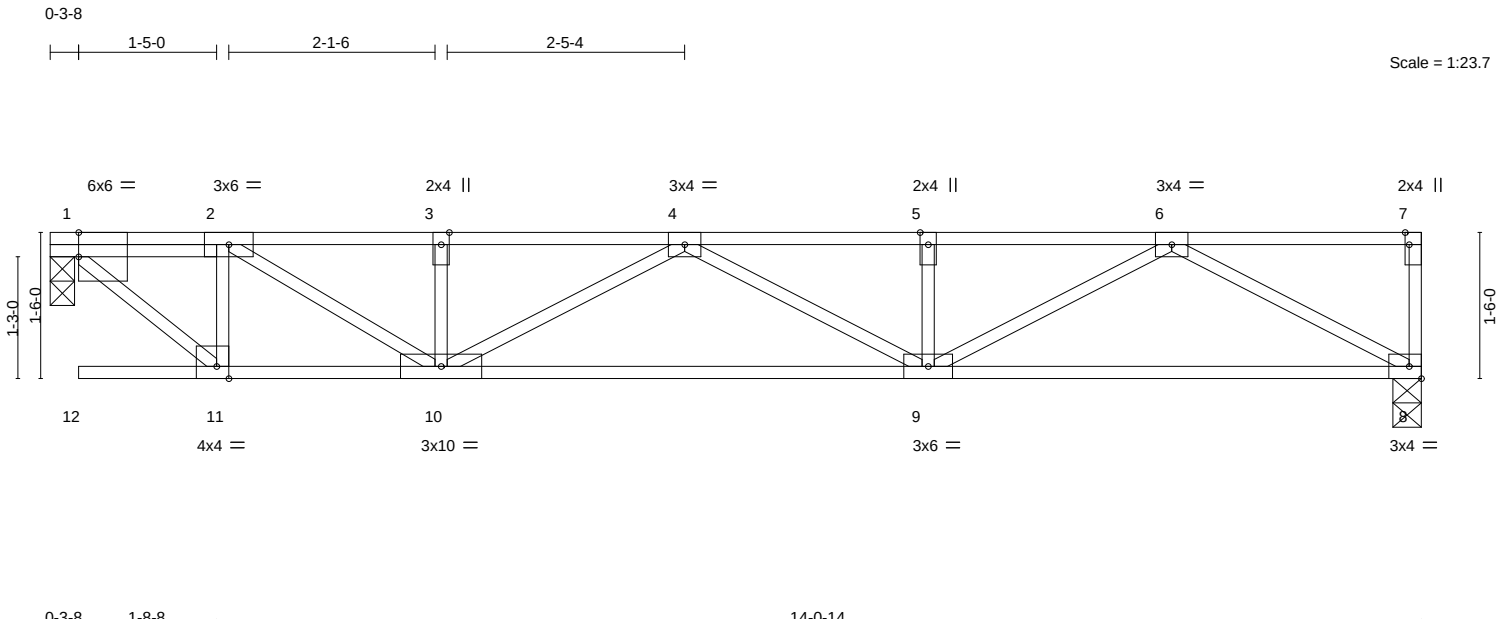


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.05	9-10	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.13	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-0, 8=0-3-8
Max Grav 1=686(LC 1), 8=686(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-694/0, 2-3=-1390/0, 3-4=-1390/0, 4-5=-1637/0, 5-6=-1637/0
BOT CHORD 10-11=0/692, 9-10=0/1715, 8-9=0/1042
WEBS 6-8=-1189/0, 6-9=0/679, 4-10=-371/0, 1-11=0/925, 2-11=-578/0, 2-10=0/818

NOTES-
1) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
4) CAUTION, Do not erect truss backwards.

March 1,2022

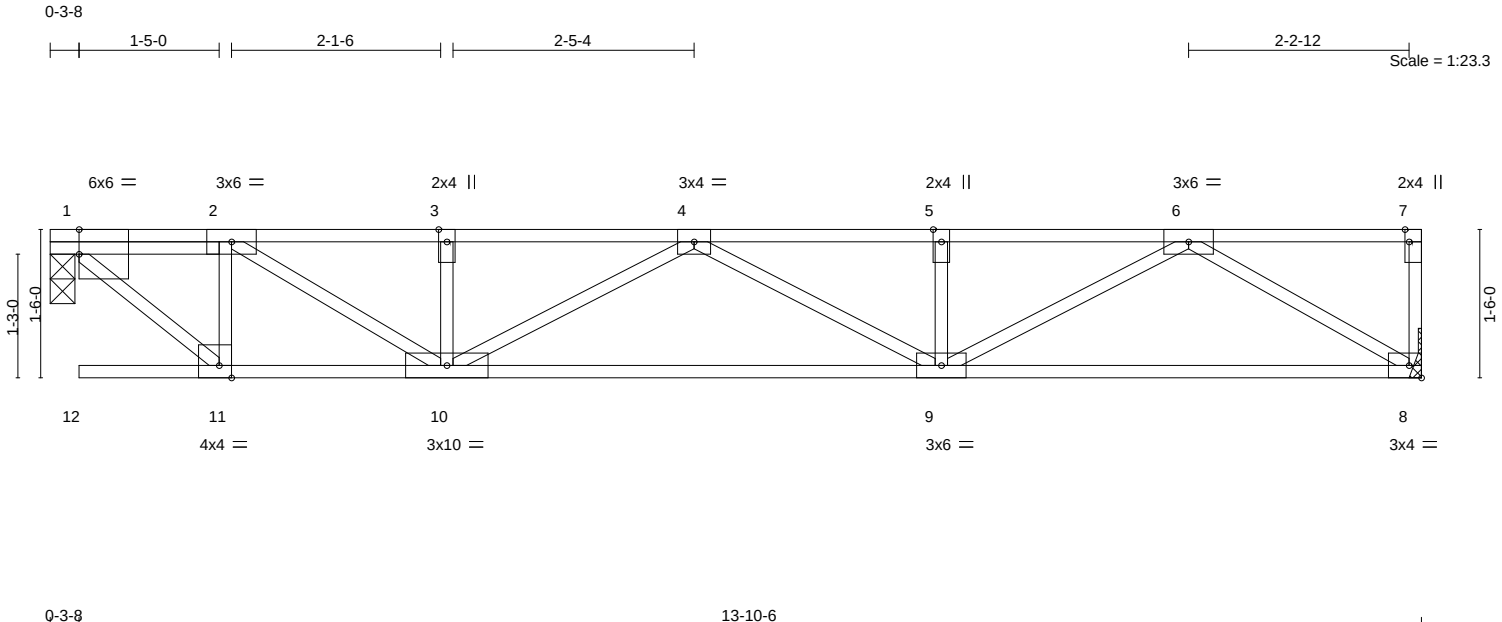
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F24	FLOOR	3	1	I50479048
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:49 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-LZHsj12bWCmTK0rB15DVTOO9xbI7M2Dknbooezzgdga



0-3-8 13-10-6
0-3-8 13-6-14

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.05	9-10	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.13	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 56 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 1=0-3-0
Max Grav 8=676(LC 1), 1=676(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-682/0, 2-3=-1361/0, 3-4=-1361/0, 4-5=-1570/0, 5-6=-1570/0
BOT CHORD 10-11=0/680, 9-10=0/1666, 8-9=0/954
WEBS 1-11=0/910, 2-11=-568/0, 2-10=0/799, 4-10=-348/0, 6-9=0/704, 6-8=-1112/0

NOTES-
1) Refer to girder(s) for truss to truss connections.
2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
5) CAUTION, Do not erect truss backwards.

March 1,2022

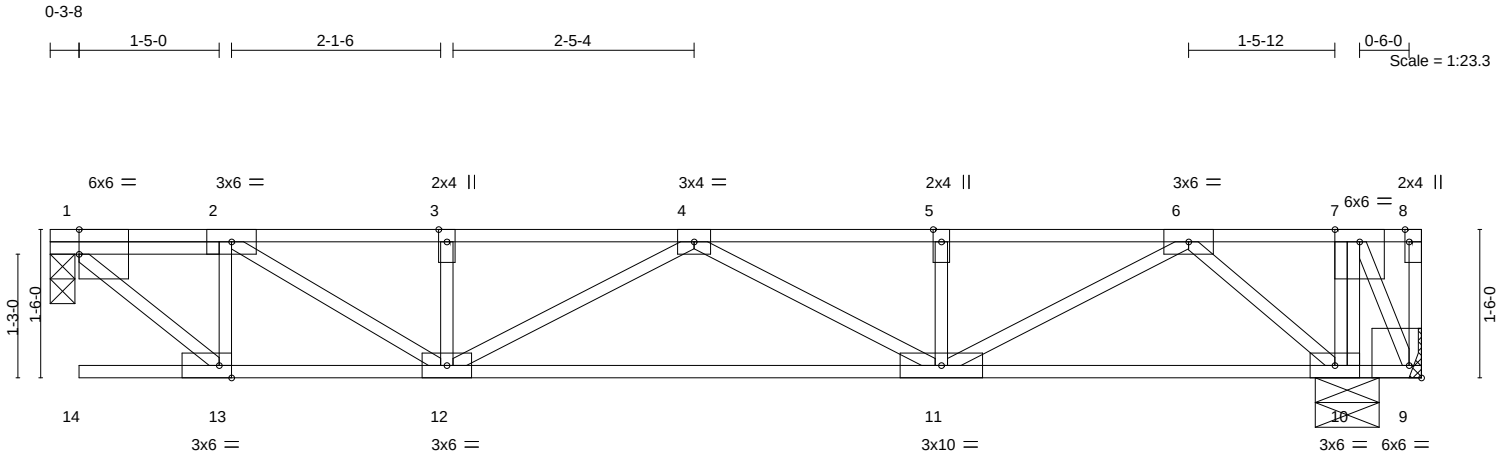
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F25	FLOOR	3	1	I50479049
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:50 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-qlrEwN2EHVuKxAQNbplk0bwJq_hU5UZt?FXMBPzgdgZ



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

0-3-8 13-1-6 13-10-6
0-3-8 12-9-14 0-9-0

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:Edge,0-1-8], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.03	11-12	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.11	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	-0.00	9	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 60 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-10.

REACTIONS. (size) 9=Mechanical, 10=0-7-12, 1=0-3-0
Max Uplift 9=-1222(LC 1)
Max Grav 10=2000(LC 1), 1=574(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-573/0, 2-3=-1089/0, 3-4=-1089/0, 4-5=-922/0, 5-6=-922/0, 6-7=0/601
BOT CHORD 12-13=0/571, 11-12=0/1204, 9-10=-601/0
WEBS 1-13=0/763, 2-13=-473/0, 2-12=0/608, 4-11=-321/0, 6-11=0/909, 7-9=0/1342, 6-10=-957/0, 7-10=-1316/0

NOTES-
1) Refer to girder(s) for truss to truss connections.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1222 lb uplift at joint 9.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
7) CAUTION, Do not erect truss backwards.

March 1,2022

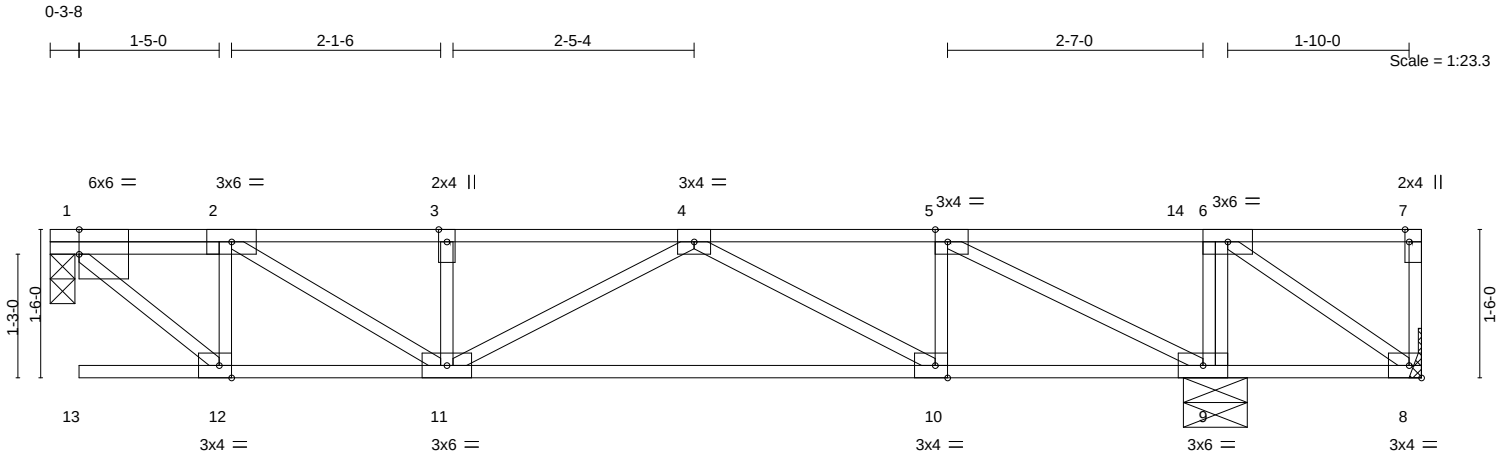
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F26	FLOOR	3	1	I50479050
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:51 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-IyPc8j3s2p0BZK?Z9WGzZpTSFO2_qzq1EvHvjszgdgY



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

0-3-8 11-9-6 13-10-6
0-3-8 11-5-14 2-1-0

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [7:0-1-8,Edge], [10:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.02	10-11	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.09	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 59 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 8-9.

REACTIONS. (size) 8=Mechanical, 9=0-7-12, 1=0-3-0
Max Uplift 8=-367(LC 3)
Max Grav 9=1166(LC 1), 1=501(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-495/0, 2-3=-895/0, 3-4=-895/0, 4-5=-467/0, 5-6=0/569
BOT CHORD 11-12=0/493, 10-11=0/876, 9-10=0/467, 8-9=-569/0
WEBS 1-12=0/659, 2-12=-404/0, 2-11=0/472, 4-10=-470/0, 5-10=0/283, 6-8=0/688, 5-9=-1157/0, 6-9=-623/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 367 lb uplift at joint 8.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
7) CAUTION, Do not erect truss backwards.

March 1,2022

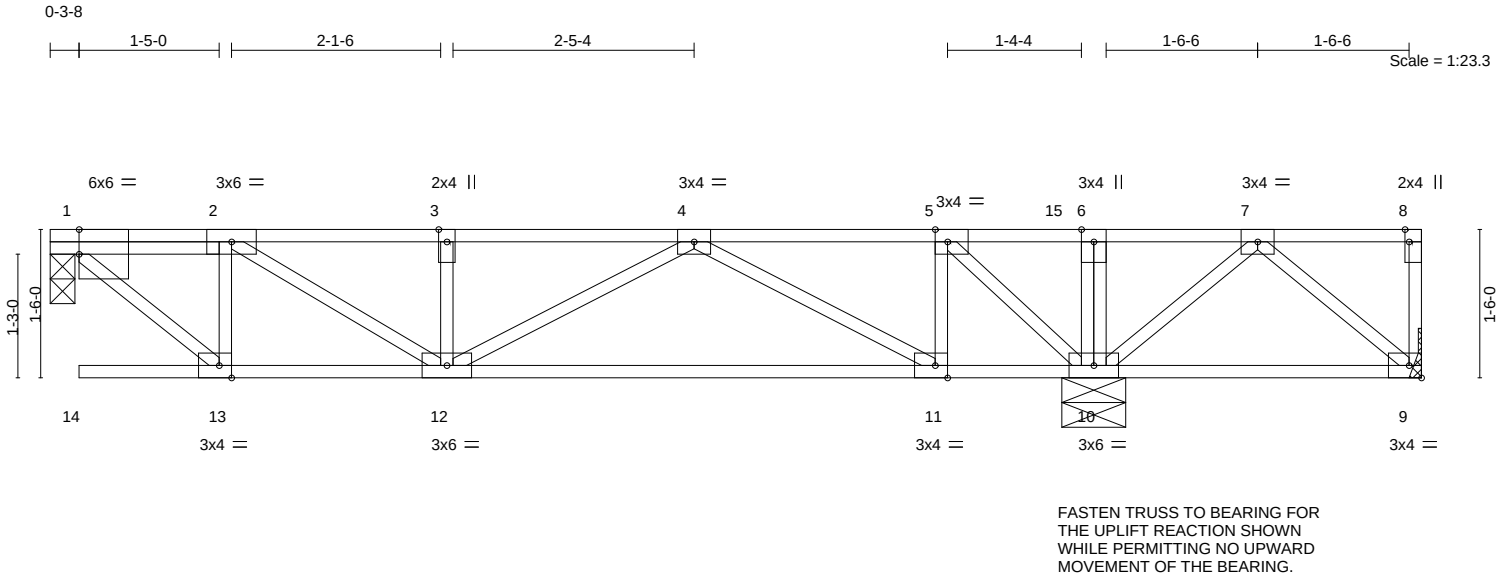
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F27	FLOOR	3	1	I50479051
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:51 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-lyPc8j3s2p0BZK?Z9WGzZpTUxO3Bq_C1EvHvjszgdgY



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

0-3-8	10-6-10	13-10-6
0-3-8	10-3-2	3-3-12

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [8:0-1-8,Edge], [11:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.01	11-12	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.29	Vert(CT)	-0.07	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.00	9	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 60 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-10.

REACTIONS. (size) 9=Mechanical, 10=0-7-12, 1=0-3-0
Max Uplift 9=-155(LC 3)
Max Grav 9=48(LC 4), 10=985(LC 1), 1=440(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-429/0, 2-3=-728/0, 3-4=-728/0, 5-6=0/533, 6-7=0/534
BOT CHORD 12-13=0/427, 11-12=0/602
WEBS 1-13=0/571, 2-13=-346/0, 2-12=0/353, 4-11=-614/0, 5-11=0/347, 7-10=-476/0, 7-9=0/297, 5-10=-795/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint 9.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
7) CAUTION, Do not erect truss backwards.

March 1,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

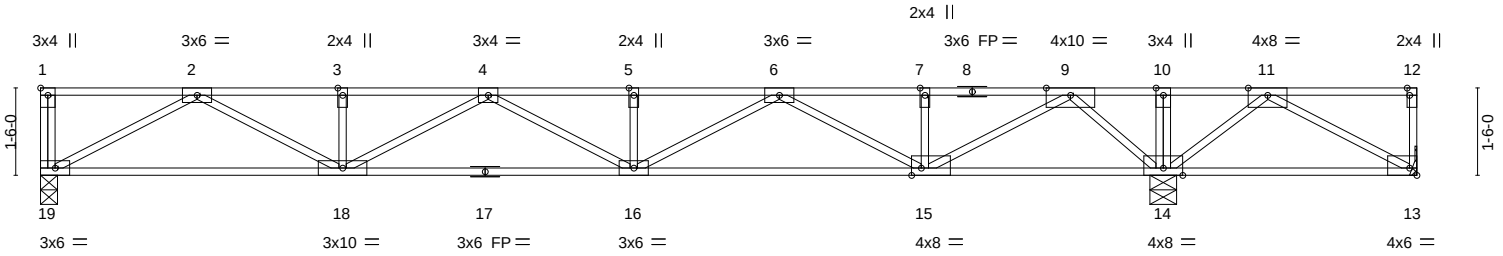
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F28	Floor	6	1	I50479052
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:52 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-m8z_L34Up782BUaljDnC50?XGoIXZMAATZ0SFIzgdgX

2-5-4 1-5-10 1-8-0

Scale = 1:39.6



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

19-3-6 23-7-10
19-3-6 4-4-4

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [12:0-1-8,Edge], [13:Edge,0-1-8], [15:0-2-0,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.12	16-18	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.23	16-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	14	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 95 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 19=0-3-8, 13=Mechanical, 14=0-5-8
Max Uplift 13=-651(LC 3)
Max Grav 19=790(LC 3), 14=2099(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2025/0, 3-4=-2025/0, 4-5=-2144/0, 5-6=-2144/0, 6-7=-450/0, 7-9=-450/0, 9-10=0/2322, 10-11=0/2323
BOT CHORD 18-19=0/1254, 16-18=0/2284, 15-16=0/1494, 14-15=-1116/0, 13-14=-1282/0
WEBS 2-19=-1423/0, 2-18=0/879, 4-18=-296/0, 6-16=0/745, 6-15=-1193/0, 9-15=0/1771, 9-14=-1593/0, 11-13=0/1464, 11-14=-1436/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 651 lb uplift at joint 13.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

March 1,2022

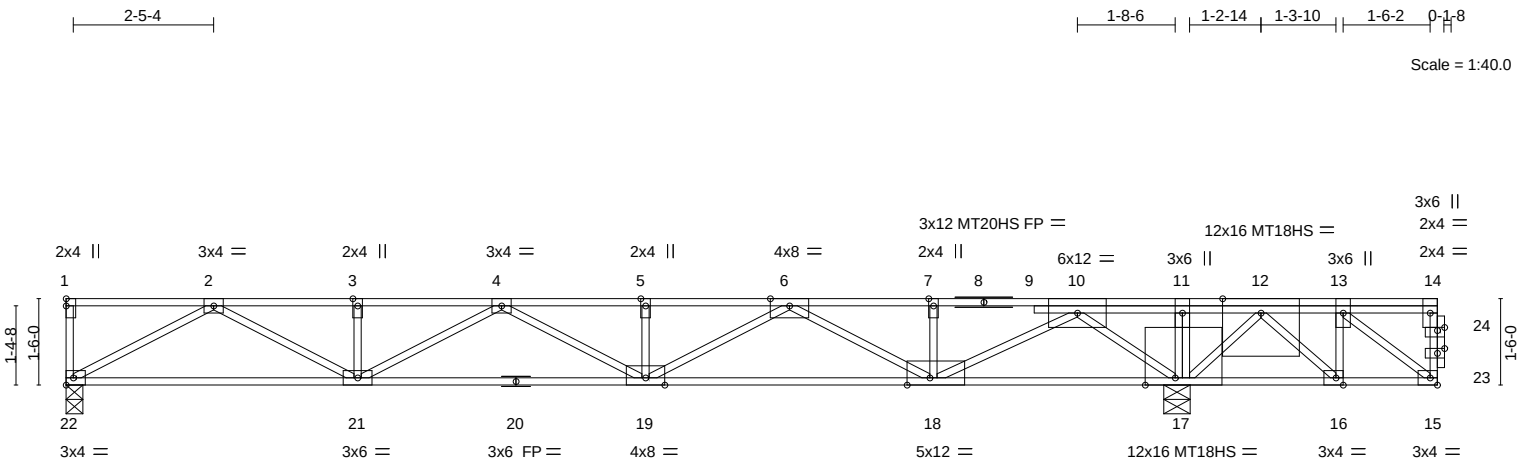
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F28G	FLOOR SPECIAL	3	1	I50479053
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:53 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-EKXNZP56aQGvpe9yGxIReEYm7CdWIkAJhCm0nkzgdgW



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

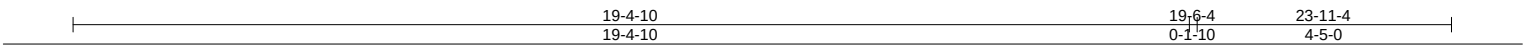


Plate Offsets (X,Y)-- [16:0-1-8,Edge], [17:0-6-4,Edge], [18:0-4-12,Edge], [23:0-1-8,0-1-0], [24:0-1-8,0-0-10]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	-0.16	19	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	0.12	19	>999	360	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	NO	WB	0.77	Horz(CT)	-0.05	17	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 105 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E(flat)
BOT CHORD 2x4 SPF No.2(flat) *Except*
15-20: 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat) *Except*
12-17: 2x4 DF 2400F 2.0E(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 22=0-3-8, 17=0-5-8
Max Grav 22=587(LC 3), 17=6809(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1275/223, 3-4=-1275/223, 4-5=-679/1333, 5-6=-679/1333, 6-7=0/3277, 7-10=0/3277, 10-11=0/5841, 11-12=0/5839
BOT CHORD 21-22=-26/860, 19-21=-701/1176, 18-19=-2236/0, 17-18=-4717/0, 16-17=-422/0
WEBS 2-22=-981/29, 2-21=-226/474, 4-21=0/545, 4-19=-721/0, 6-19=0/1204, 6-18=-1648/0, 10-18=0/2340, 10-17=-2141/0, 13-16=-323/0, 12-17=-7495/0, 12-16=0/482, 11-17=-342/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-14=-87, 15-22=-13
Concentrated Loads (lb)
Vert: 12=-5000
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-14=-87, 15-22=-13
Concentrated Loads (lb)
Vert: 12=-5000

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F28G	FLOOR SPECIAL	3	1	I50479053 Job Reference (optional)

LOAD CASE(S) Standard

3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 1-11=-87, 11-14=-33, 15-22=-13
   Concentrated Loads (lb)
   Vert: 12=-5000
4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 1-11=-33, 11-14=-87, 15-22=-13
   Concentrated Loads (lb)
   Vert: 12=-5000
5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 1-11=-87, 11-14=-33, 15-22=-13
   Concentrated Loads (lb)
   Vert: 12=-5000
6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 1-11=-33, 11-14=-87, 15-22=-13
   Concentrated Loads (lb)
   Vert: 12=-5000

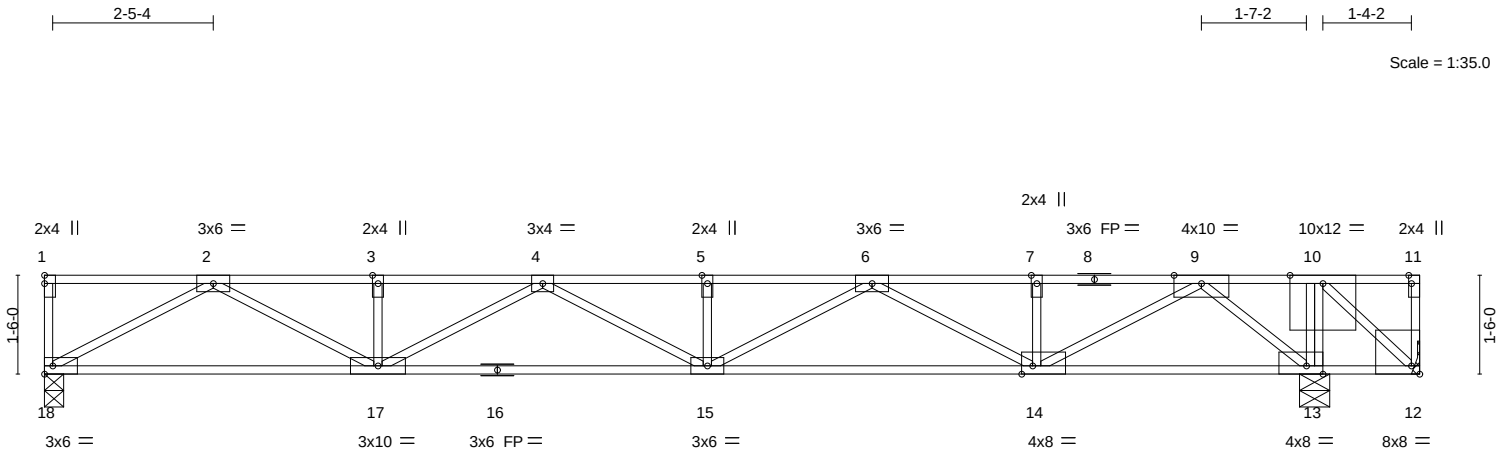
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F29	Floor	18	1	I50479054
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:53 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-EKXNZP56aQGvpe9yGxIReEYjNCecIj3JhCm0nkzgdgW



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

19-3-6 / 19-3-6 | 20-10-8 / 1-7-2

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:Edge,0-1-8], [13:0-3-0,Edge], [14:0-2-0,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.12	15-17	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.24	15-17	>968	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 84 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 12=Mechanical, 13=0-5-8, 18=0-3-8
Max Uplift 12=-1996(LC 3)
Max Grav 13=3231(LC 1), 18=799(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2045/0, 3-4=-2045/0, 4-5=-2220/0, 5-6=-2220/0, 6-7=-584/0, 7-9=-584/0, 9-10=0/2223
BOT CHORD 17-18=0/1246, 15-17=0/2332, 14-15=0/1598, 13-14=-943/0, 12-13=-2223/0
WEBS 10-13=-2155/0, 2-18=-1421/0, 2-17=0/912, 4-17=-327/0, 6-15=0/709, 6-14=-1158/0, 9-14=0/1742, 9-13=-1641/0, 10-12=0/2987

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1996 lb uplift at joint 12.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 1,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

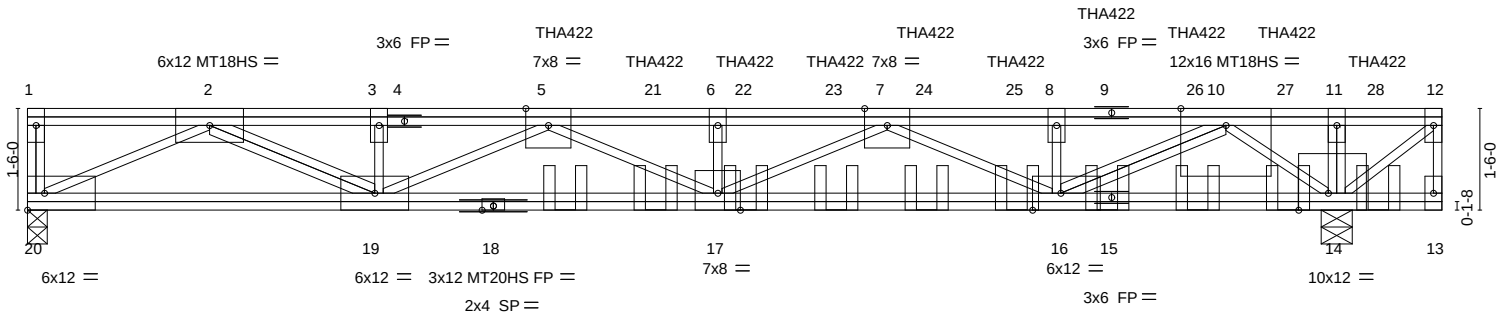
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F29G	Floor Girder	3	1	I50479055
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:55 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-Ajf7z46M52Wd2xJKOMKvjfd?1?Ljmccc9WF7sdzgdgU

2-5-4 1-6-2 1-3-10

Scale = 1:34.0



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

19-3-14 20-10-8
19-3-14 1-6-10

Plate Offsets (X,Y)-- [14:0-5-4,Edge], [16:0-5-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.29	17	>798	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.55	17	>416	360	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.08	14	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							Weight: 139 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat) *Except*
15-20: 2x4 DF 2400F 2.0E(flat), 13-15: 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=0-3-8, 14=0-5-8
Max Grav 20=2153(LC 3), 14=3614(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-7110/0, 3-5=-7130/0, 5-6=-10599/0, 6-7=-10599/0, 7-8=-7485/0, 8-10=-7431/0
BOT CHORD 19-20=0/4125, 17-19=0/9570, 16-17=0/9892, 14-16=0/3622
WEBS 11-14=-736/0, 2-20=-4563/0, 2-19=0/3385, 3-19=-306/0, 5-19=-2710/0, 5-17=0/1200, 6-17=-782/0, 7-17=0/798, 7-16=-2681/0, 8-16=-820/0, 10-16=0/4340, 10-14=-4562/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x6 MT20 unless otherwise indicated.
4) The Fabrication Tolerance at joint 18 = 11%
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.
8) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 1-4-0 oc max. starting at 7-11-4 from the left end to 19-11-4 to connect truss(es) to back face of top chord.
9) Fill all nail holes where hanger is in contact with lumber.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-20=-20, 1-12=-130
Concentrated Loads (lb)
Vert: 9=-257(B) 5=-257(B) 21=-257(B) 22=-257(B) 23=-257(B) 24=-257(B) 25=-257(B) 26=-257(B) 27=-257(B) 28=-350(B)

March 1,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

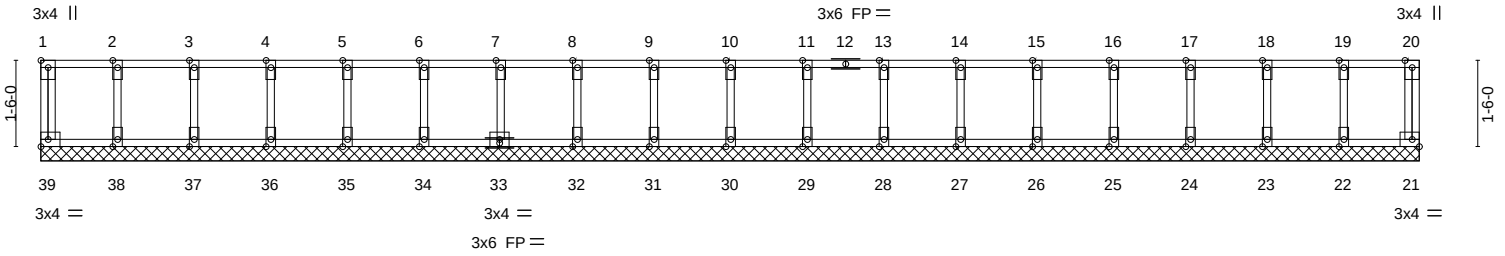
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	L11	Floor Supported Gable	1	1	I50479056 Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:55 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-Ajf7z46M52Wd2xJKOMKvjfdD1?VLmqJc9WF7sdzgdgU

0-1-8 0-1-8

Scale = 1:40.1



23-11-12
23-11-12

Plate Offsets (X,Y)-- [1:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	21	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 85 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 23-11-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 39, 21, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 2x4 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 1,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

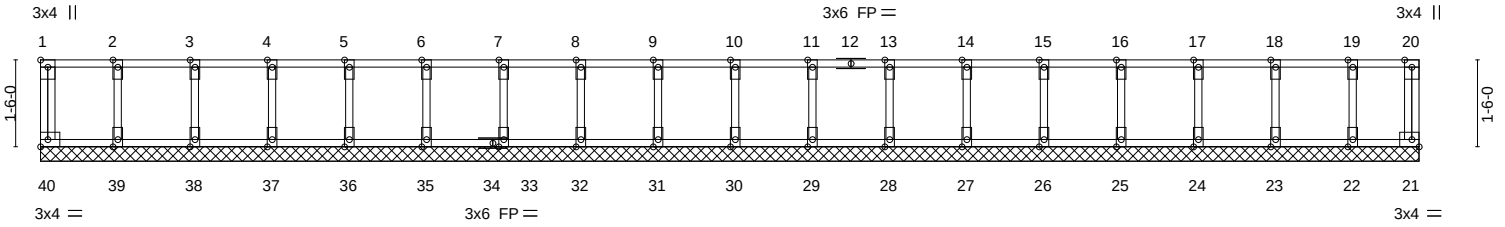
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	L21	Floor Supported Gable	3	1	I50479057
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:56 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-evDVBQ7_sLeUg5uXy3r8GsAOlPqcVHYmOA_gO3zgdgT

0-1-8 0-1-8

Scale = 1:39.8



23-9-12
23-9-12

Plate Offsets (X,Y)-- [1:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	21	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 84 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SPF No.2(flat)
BOT CHORD	2x4 SPF No.2(flat)
WEBS	2x4 SPF No.2(flat)
OTHERS	2x4 SPF No.2(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 23-9-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 39, 38, 37, 36, 35, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 2x4 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

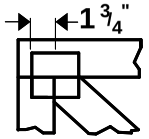
March 1,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

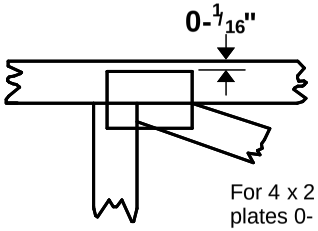
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

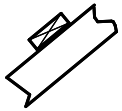
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

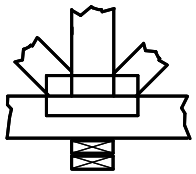
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

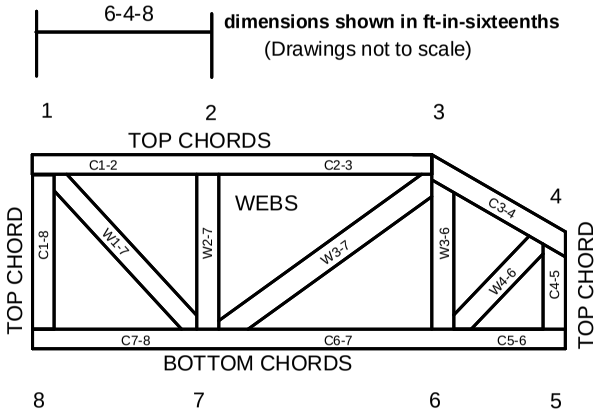


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

© 2012 MiTek® All Rights Reserved

MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 3

Building 3

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

RE: J220198-G03R - Brinkmann Constructors

Site Information:

Project Customer: Valued customer Project Name: BRINKMANN CONSTRUCTORS

Lot/Block: Subdivision:

Model:

Address: 2100 NW Lowenstein Dr

City: Lee Summit State: Mo

45psf
-bdc

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IBC2018/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-16 Wind Speed: 115 mph Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

Roof Load: 40.0 psf Floor Load: N/A psf

Mean Roof Height (feet): 25 Exposure Category: C

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I50479061	J02	3/1/22	35	I50479095	T34	3/1/22
2	I50479062	T01	3/1/22	36	I50479096	T35	3/1/22
3	I50479063	T02	3/1/22	37	I50479097	T36	3/1/22
4	I50479064	T03	3/1/22	38	I50479098	T37	3/1/22
5	I50479065	T04	3/1/22	39	I50479099	T38	3/1/22
6	I50479066	T05	3/1/22	40	I50479100	T39	3/1/22
7	I50479067	T06	3/1/22	41	I50479101	T40	3/1/22
8	I50479068	T07	3/1/22	42	I50479102	T41	3/1/22
9	I50479069	T08	3/1/22	43	I50479103	T42	3/1/22
10	I50479070	T09	3/1/22	44	I50479104	T43	3/1/22
11	I50479071	T10	3/1/22	45	I50479105	T44	3/1/22
12	I50479072	T11	3/1/22	46	I50479106	T45	3/1/22
13	I50479073	T12	3/1/22	47	I50479107	T46	3/1/22
14	I50479074	T13	3/1/22	48	I50479108	T47	3/1/22
15	I50479075	T14	3/1/22	49	I50479109	T48	3/1/22
16	I50479076	T15	3/1/22	50	I50479110	T49	3/1/22
17	I50479077	T16	3/1/22	51	I50479111	T52	3/1/22
18	I50479078	T17	3/1/22	52	I50479112	TGE01	3/1/22
19	I50479079	T18	3/1/22	53	I50479113	TGE02	3/1/22
20	I50479080	T19	3/1/22	54	I50479114	TGE03	3/1/22
21	I50479081	T20	3/1/22	55	I50479115	TGE04	3/1/22
22	I50479082	T21	3/1/22	56	I50479116	TGE05	3/1/22
23	I50479083	T22	3/1/22	57	I50479117	TGE06	3/1/22
24	I50479084	T23	3/1/22	58	I50479118	TGE07	3/1/22
25	I50479085	T24	3/1/22	59	I50479119	TGE08	3/1/22
26	I50479086	T25	3/1/22	60	I50479120	TGE09	3/1/22
27	I50479087	T26	3/1/22	61	I50479121	TGE10	3/1/22
28	I50479088	T27	3/1/22	62	I50479122	TGE11	3/1/22
29	I50479089	T28	3/1/22	63	I50479123	TGE12	3/1/22
30	I50479090	T29	3/1/22	64	I50479124	TGE13	3/1/22
31	I50479091	T30	3/1/22	65	I50479125	TGE14	3/1/22
32	I50479092	T31	3/1/22	66	I50479126	TGE15	3/1/22
33	I50479093	T32	3/1/22	67	I50479127	TGE16	3/1/22
34	I50479094	T33	3/1/22	68	I50479128	TGE17	3/1/22

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 03/08/2022 BY: cb

REVIEWED ☐ DATE RECIEVED:

REVIEWED AS NOTED ☑ DATE REVIEWED: 3/14/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mill Creek Truss, LLC.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2023.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

March 1,2022

Sevier, Scott

RE: J220198-G03R - Brinkmann Constructors

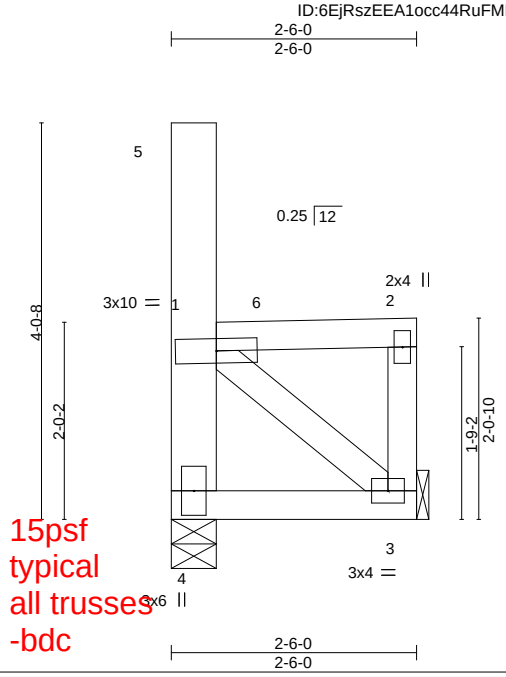
MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

No.	Seal#	Truss Name	Date
69	I50479129	TGE18	3/1/22
70	I50479130	TGE19	3/1/22
71	I50479131	TGE20	3/1/22
72	I50479132	TGE21	3/1/22
73	I50479133	TGE22	3/1/22
74	I50479134	TGE23	3/1/22

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	J02	Jack-Closed	52	1	I50479061
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:24 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-Xx4b6XwaGbYwik1zfTPaomK8piNU3wTtqXm9NRzgdg1



15psf typical all trusses -bdc

LOADING (psf)
TCLL (roof) 20.0
Snow (Pf/Pg) 13.9/20.0
TCDL 10.0
BCLL 0.0 *
BCDL 10.0

SPACING- 2-0-0
Plate Grip DOL 1.15
Lumber DOL 1.15
Rep Stress Incr NO
Code IBC2018/TPI2014

CSI.
TC 0.20
BC 0.12
WB 0.09
Matrix-MP

DEFL.	in	(loc)	l/defl	L/d
Vert(LL)	-0.00	3-4	>999	240
Vert(CT)	-0.00	3-4	>999	180
Horz(CT)	0.00	3	n/a	n/a

PLATES MT20 **GRIP** 197/144

Weight: 16 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
4-5: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=162(LC 11)
Max Uplift 4=-163(LC 10), 3=-158(LC 11)
Max Grav 4=206(LC 13), 3=189(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-195/545
BOT CHORD 3-4=-343/522
WEBS 1-3=-624/411

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 4 and 158 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-48, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-6=-48
2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	J02	Jack-Closed	52	1	I50479061
					Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-60, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-6=-60

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-50, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-6=-50

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-41, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-56-to-6=-41

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-6=-20, 3-4=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-6=-20

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=98, 3-4=-12
Horz: 1-4=27, 1-5=139, 1-2=-110, 2-3=42
Trapezoidal Loads (plf)
Vert: 1=83-to-6=98

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=98, 3-4=-12
Horz: 1-4=-42, 1-5=-70, 1-2=-110, 2-3=-27
Trapezoidal Loads (plf)
Vert: 1=83-to-6=98

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=-30, 1-5=46, 1-2=16, 2-3=-39
Trapezoidal Loads (plf)
Vert: 1=-51-to-6=-36

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=39, 1-5=-70, 1-2=16, 2-3=30
Trapezoidal Loads (plf)
Vert: 1=-51-to-6=-36

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=16, 3-4=-12
Horz: 1-4=12, 1-5=50, 1-2=-28, 2-3=18
Trapezoidal Loads (plf)
Vert: 1=1-to-6=16

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=6, 3-4=-12
Horz: 1-4=-18, 1-5=-50, 1-2=-18, 2-3=-12
Trapezoidal Loads (plf)
Vert: 1=-9-to-6=6

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-3, 3-4=-20
Horz: 1-4=24, 1-5=50, 1-2=-17, 2-3=6
Trapezoidal Loads (plf)
Vert: 1=-18-to-6=-3

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-14, 3-4=-20
Horz: 1-4=-6, 1-5=-50, 1-2=-6, 2-3=-24
Trapezoidal Loads (plf)
Vert: 1=-29-to-6=-14

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=16, 3-4=-12
Horz: 1-4=7, 1-5=-33, 1-2=-28, 2-3=15
Trapezoidal Loads (plf)
Vert: 1=1-to-6=16

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	J02	Jack-Closed	52	1	I50479061 Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=6, 3-4=-12
Horz: 1-4=-15, 1-5=-33, 1-2=-18, 2-3=-7
Trapezoidal Loads (plf)
Vert: 1=-9-to-6=6

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=16, 3-4=-12
Horz: 1-4=7, 1-5=-33, 1-2=-28, 2-3=15
Trapezoidal Loads (plf)
Vert: 1=1-to-6=16

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=6, 3-4=-12
Horz: 1-4=-15, 1-5=-33, 1-2=-18, 2-3=-7
Trapezoidal Loads (plf)
Vert: 1=-9-to-6=6

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-3, 3-4=-20
Horz: 1-4=19, 1-5=-33, 1-2=-17, 2-3=4
Trapezoidal Loads (plf)
Vert: 1=-18-to-6=-3

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-14, 3-4=-20
Horz: 1-4=-4, 1-5=-33, 1-2=-6, 2-3=-19
Trapezoidal Loads (plf)
Vert: 1=-29-to-6=-14

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 2-6=-20, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-6=-20

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=-12, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-43-to-6=-28

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=-5, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-51-to-6=-36

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=-12, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-43-to-6=-28

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=-5, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-51-to-6=-36

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-38, 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=-12, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-53-to-6=-38

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-45, 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=-5, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-60-to-6=-45

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-38, 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=-12, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-53-to-6=-38

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	J02	Jack-Closed	52	1	I50479061 Job Reference (optional)

LOAD CASE(S) Standard

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-45, 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=-5, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-60-to-6=-45

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-6=-60

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-12
Horz: 1-4=-16, 1-5=33, 1-2=16, 2-3=-16
Trapezoidal Loads (plf)
Vert: 1=-43-to-6=-28

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=4, 3-4=-12
Horz: 1-4=16, 1-5=33, 1-2=-16, 2-3=16
Trapezoidal Loads (plf)
Vert: 1=-11-to-6=4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

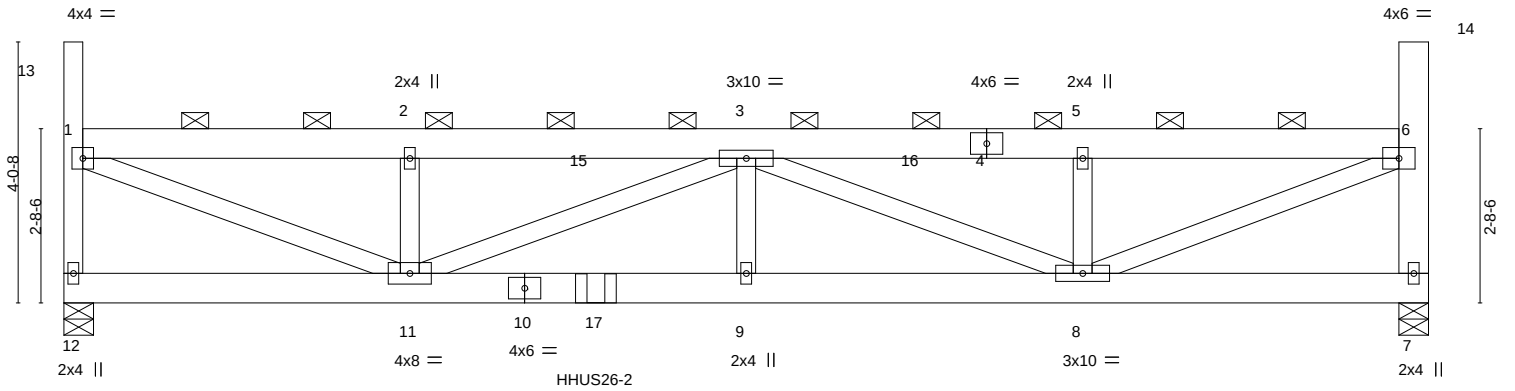
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	T01	FLAT GIRDER	2	3	I50479062
					Job Reference (optional)

Mill Creek Truss, Halstead, KS 67056, Mitek — 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 03:54:28 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-dm9cYvTeoKOTtdX2fgzlTb0giJEkCRyjpkGLApzfPSf

5-4-5	10-6-13	15-9-6	21-1-10
5-4-5	5-2-9	5-2-9	5-4-4

Scale = 1:35.7



5-4-5	10-6-13	15-9-6	21-1-10
5-4-5	5-2-9	5-2-9	5-4-4

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.09	9-11	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.12	9-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 344 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except*
7-14: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 12=1521/0-5-8, 7=1284/0-5-8
Max Horz 12=-198(LC 10)
Max Uplift 12=-231(LC 11), 7=-180(LC 11)
Max Grav 12=1581(LC 25), 7=1320(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1619/956, 1-2=-3572/1909, 2-15=-3572/1909, 3-15=-3572/1909, 3-16=-2468/1436, 4-16=-2468/1436, 4-5=-2468/1436, 5-6=-2468/1436, 6-7=-1219/763
BOT CHORD 11-12=-369/322, 10-11=-2526/4525, 10-17=-2526/4525, 9-17=-2526/4525, 8-9=-2526/4525
WEBS 1-11=-2016/3729, 2-11=-338/318, 3-11=-986/681, 3-9=-366/1115, 3-8=-2253/1172, 5-8=-347/313, 6-8=-1533/2568

NOTES-
1) n/a
2) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
3) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
4) Unbalanced roof live loads have been considered for this design.
5) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
6) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
7) Provide adequate drainage to prevent water ponding.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 12 and 180 lb uplift at joint 7.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	T01	FLAT GIRDER	2	3	I50479062
					Job Reference (optional)

NOTES-

12) Load case(s) 1, 2, 3, 4, 5, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 8-2-14 from the left end to connect truss(es) to front face of bottom chord.
15) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 15-16=-58, 7-12=-20
   Concentrated Loads (lb)
   Vert: 17=-1074(F)
   Trapezoidal Loads (plf)
   Vert: 1=-73-to-15=-58, 16=-58-to-6=-73
2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 15-16=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 17=-1106(F)
   Trapezoidal Loads (plf)
   Vert: 1=-75-to-15=-60, 16=-60-to-6=-75
3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 15-16=-50, 7-12=-20
   Concentrated Loads (lb)
   Vert: 17=-967(F)
   Trapezoidal Loads (plf)
   Vert: 1=-65-to-15=-50, 16=-50-to-6=-65
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 15-16=-48, 7-12=-20
   Concentrated Loads (lb)
   Vert: 17=-944(F)
   Trapezoidal Loads (plf)
   Vert: 1=-63-to-15=-48, 16=-48-to-6=-63
5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 15-16=-20, 7-12=-40
   Concentrated Loads (lb)
   Vert: 17=-829(F)
   Trapezoidal Loads (plf)
   Vert: 1=-35-to-15=-20, 16=-20-to-6=-35
10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 15-16=16, 7-12=-12
   Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
   Concentrated Loads (lb)
   Vert: 17=61(F)
   Trapezoidal Loads (plf)
   Vert: 1=1-to-15=16, 16=16-to-6=1
11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 15-16=16, 7-12=-12
   Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
   Concentrated Loads (lb)
   Vert: 17=437(F)
   Trapezoidal Loads (plf)
   Vert: 1=1-to-15=16, 16=16-to-6=1
12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 15-16=-3, 7-12=-20
   Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
   Concentrated Loads (lb)
   Vert: 17=-1321(F)
   Trapezoidal Loads (plf)
   Vert: 1=-18-to-15=-3, 16=-3-to-6=-18
13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 15-16=-3, 7-12=-20
   Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
   Concentrated Loads (lb)
   Vert: 17=-634(F)
   Trapezoidal Loads (plf)
   Vert: 1=-18-to-15=-3, 16=-3-to-6=-18
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	T01	FLAT GIRDER	2	3	I50479062 Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Concentrated Loads (lb)
Vert: 17=208(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Concentrated Loads (lb)
Vert: 17=208(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Concentrated Loads (lb)
Vert: 17=208(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Concentrated Loads (lb)
Vert: 17=208(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Concentrated Loads (lb)
Vert: 17=-1092(F)
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 16=-3-to-6=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Concentrated Loads (lb)
Vert: 17=-1092(F)
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 16=-3-to-6=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 15-16=-20, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-553(F)
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 16=-20-to-6=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1520(F)
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 16=-36-to-6=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Concentrated Loads (lb)
Vert: 17=-1005(F)
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 16=-36-to-6=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1348(F)

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	T01	FLAT GIRDER	2	3	I50479062 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 16=-36-to-6=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1348(F)
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 16=-36-to-6=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1544(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 16=-38-to-6=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Concentrated Loads (lb)
Vert: 17=-1028(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 16=-38-to-6=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1372(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 16=-38-to-6=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1372(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 16=-38-to-6=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-1106(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 16=-60-to-6=-75

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-1106(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 16=-60-to-6=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-1106(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 16=-60-to-6=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-50, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-967(F)
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 16=-50-to-6=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-50, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-967(F)

Continued on page 5

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	T01	FLAT GIRDER	2	3	I50479062 Job Reference (optional)

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 16=-50-to-6=-65

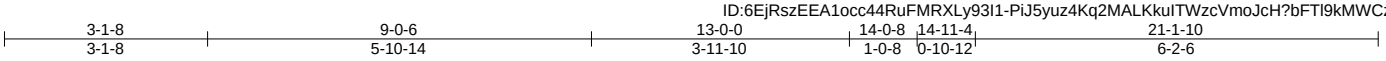
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

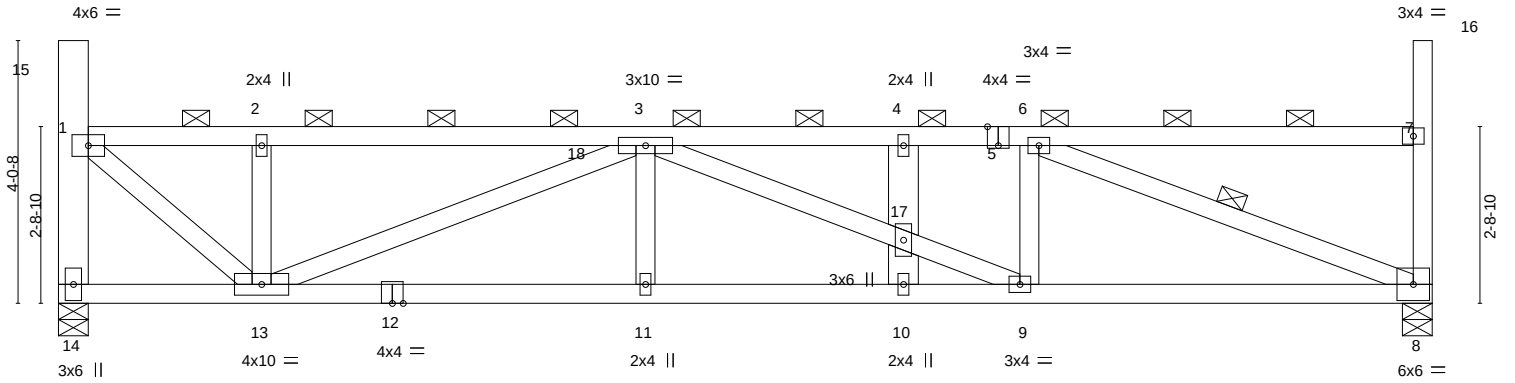
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T02	Flat	2	1	I50479063
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:28 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-PiJ5yuz4Kq2MALKkuITWzcVmoJcH?bFTI9kMWCzgdfz



Scale = 1:35.4



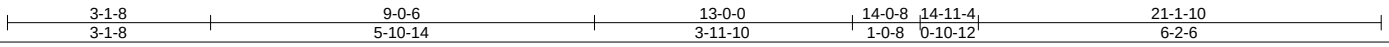


Plate Offsets (X,Y)-- [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	0.11	10-11	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.18	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 94 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
14-15,10-17,4-17: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (4-2-5 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-5-5 oc bracing.
WEBS 1 Row at midpt 6-8

REACTIONS. (size) 14=0-5-8, 8=0-5-8
Max Horz 14=195(LC 11)
Max Uplift 14=-10(LC 10), 8=-10(LC 11)
Max Grav 14=889(LC 2), 8=889(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-870/462, 1-2=-978/577, 2-3=-978/577, 3-4=-1625/870, 4-6=-1625/870
BOT CHORD 13-14=-332/359, 11-13=-1158/1877, 10-11=-1158/1877, 9-10=-1158/1877, 8-9=-904/1625
WEBS 1-13=-677/1264, 2-13=-344/261, 3-13=-972/648, 3-17=-269/272, 9-17=-280/281, 6-9=-61/321, 6-8=-1679/955

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 14 and 10 lb uplift at joint 8.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 1,2022

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-58, 8-14=-20

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T02	Flat	2	1	I50479063
					Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-18=-58, 4=-57-to-7=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-18=-60, 4=-60-to-7=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-50, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-18=-50, 4=-50-to-7=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-48, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-18=-48, 4=-48-to-7=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-18=-20, 8-14=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-18=-20, 4=-20-to-7=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=58, 8-14=-12
Horz: 1-14=20, 1-15=91, 7-8=35, 7-16=56
Trapezoidal Loads (plf)
Vert: 1=43-to-18=58, 4=58-to-7=43

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=58, 8-14=-12
Horz: 1-14=-35, 1-15=-56, 7-8=-20, 7-16=-91
Trapezoidal Loads (plf)
Vert: 1=43-to-18=58, 4=58-to-7=43

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-32, 8-14=-20
Horz: 1-14=-23, 1-15=36, 7-8=-32, 7-16=56
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-32, 4=-32-to-7=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-32, 8-14=-20
Horz: 1-14=32, 1-15=-56, 7-8=23, 7-16=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-32, 4=-32-to-7=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=16, 8-14=-12
Horz: 1-14=12, 1-15=50, 7-8=18, 7-16=33
Trapezoidal Loads (plf)
Vert: 1=1-to-18=16, 4=17-to-7=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=16, 8-14=-12
Horz: 1-14=-18, 1-15=-33, 7-8=-12, 7-16=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-18=16, 4=17-to-7=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-3, 8-14=-20
Horz: 1-14=24, 1-15=50, 7-8=6, 7-16=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-18=-3, 4=-3-to-7=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-3, 8-14=-20
Horz: 1-14=-6, 1-15=-33, 7-8=-24, 7-16=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-18=-3, 4=-3-to-7=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=16, 8-14=-12
Horz: 1-14=7, 1-15=-33, 7-8=15, 7-16=33
Trapezoidal Loads (plf)
Vert: 1=1-to-18=16, 4=17-to-7=1

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T02	Flat	2	1	I50479063
					Job Reference (optional)

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=16, 8-14=-12
Horz: 1-14=-15, 1-15=-33, 7-8=-7, 7-16=33
Trapezoidal Loads (plf)
Vert: 1=1-to-18=16, 4=17-to-7=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=16, 8-14=-12
Horz: 1-14=7, 1-15=-33, 7-8=15, 7-16=33
Trapezoidal Loads (plf)
Vert: 1=1-to-18=16, 4=17-to-7=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=16, 8-14=-12
Horz: 1-14=-15, 1-15=-33, 7-8=-7, 7-16=33
Trapezoidal Loads (plf)
Vert: 1=1-to-18=16, 4=17-to-7=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-3, 8-14=-20
Horz: 1-14=19, 1-15=-33, 7-8=4, 7-16=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-18=-3, 4=-3-to-7=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-3, 8-14=-20
Horz: 1-14=-4, 1-15=-33, 7-8=-19, 7-16=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-18=-3, 4=-3-to-7=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-18=-20, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-18=-20, 4=-20-to-7=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-18=-36, 4=-36-to-7=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-18=-36, 4=-36-to-7=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-18=-36, 4=-36-to-7=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-18=-36, 4=-36-to-7=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-38, 8-14=-20
Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-18=-38, 4=-37-to-7=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-38, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-18=-38, 4=-37-to-7=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-38, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T02	Flat	2	1	I50479063 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-18=-38, 4=-37-to-7=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-38, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-18=-38, 4=-37-to-7=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-18=-60, 4=-60-to-7=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-28, 8-14=-12
Horz: 1-14=-16, 1-15=33, 7-8=-16, 7-16=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-18=-28, 4=-28-to-7=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=4, 8-14=-12
Horz: 1-14=16, 1-15=33, 7-8=16, 7-16=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-18=4, 4=5-to-7=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-18=-60, 4=-60-to-7=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-18=-60, 4=-60-to-7=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-50, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-18=-50, 4=-50-to-7=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-50, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-18=-50, 4=-50-to-7=-65

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

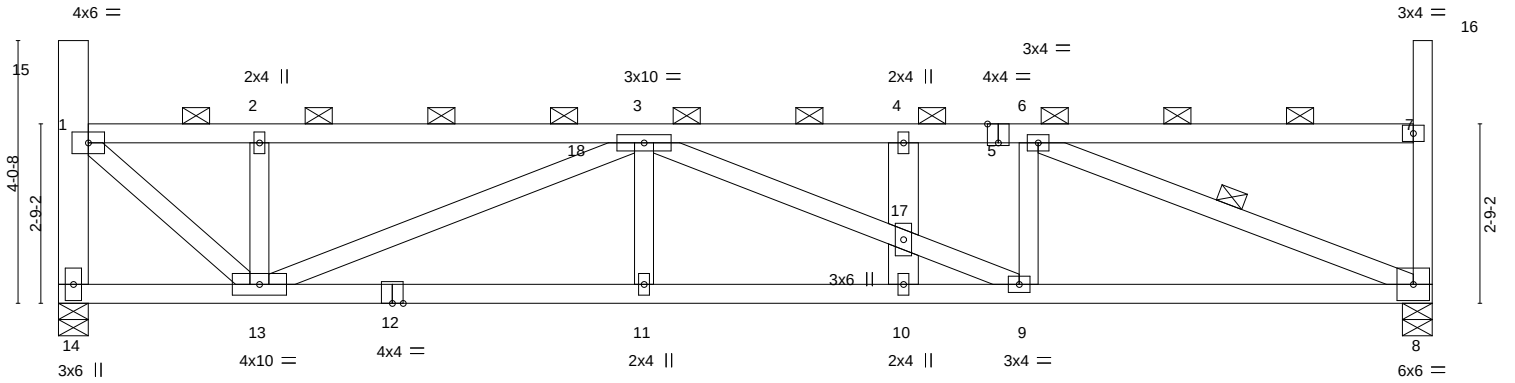
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T03	Flat	2	1	I50479064
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:29 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-uutU9E_i57ADoVvxR0_lVq2wjjzek2TdzpUw2fzgdfy

3-1-2	9-0-2	13-0-0	14-11-2	21-1-10
3-1-2	5-11-0	3-11-14	1-11-2	6-2-8

Scale = 1:35.4



3-1-2	9-0-2	13-0-0	14-11-2	21-1-10
3-1-2	5-11-0	3-11-14	1-11-2	6-2-8

Plate Offsets (X,Y)-- [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.11	10-11	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.18	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 94 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
14-15,10-17,4-17: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (4-2-11 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-3-14 oc bracing.
WEBS 1 Row at midpt 6-8

REACTIONS. (size) 14=0-5-8, 8=0-5-8
Max Horz 14=-193(LC 10)
Max Uplift 14=-68(LC 10), 8=-68(LC 11)
Max Grav 14=889(LC 29), 8=889(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-871/519, 1-2=-954/615, 2-3=-954/615, 3-4=-1600/924, 4-6=-1600/924
BOT CHORD 13-14=-327/351, 11-13=-1201/1845, 10-11=-1201/1845, 9-10=-1201/1845, 8-9=-960/1600
WEBS 1-13=-733/1248, 2-13=-345/299, 3-13=-966/653, 3-17=-268/259, 9-17=-281/267, 6-9=-47/332, 6-8=-1657/1007

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 14 and 68 lb uplift at joint 8.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-58, 8-14=-20

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T03	Flat	2	1	I50479064 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-18=-58, 4=-57-to-7=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-48, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-18=-48, 4=-48-to-7=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-18=-60, 4=-60-to-7=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

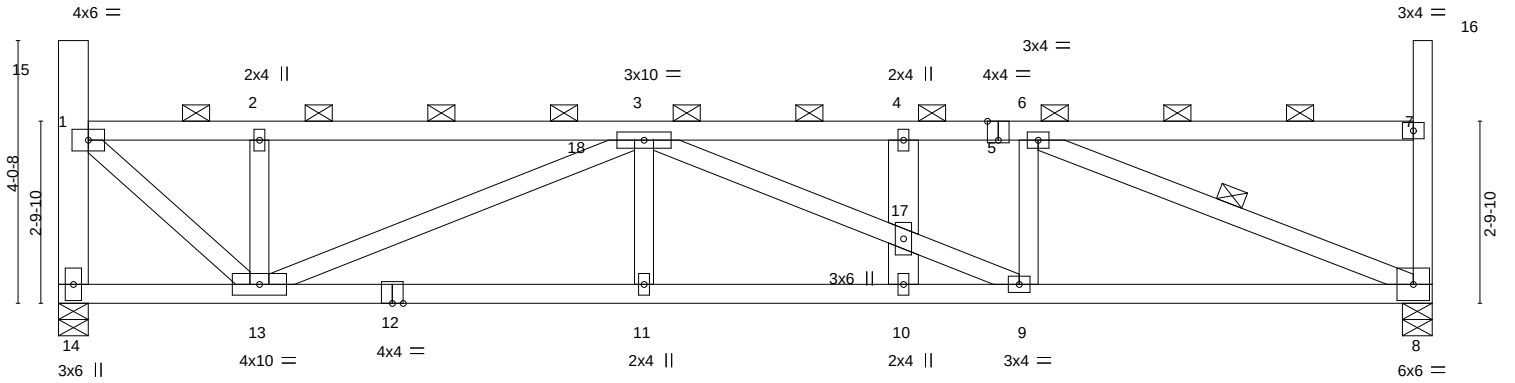
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T04	Flat	2	1	I50479065
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:30 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-M5RsNa_KsRI4QfU7?jW_21a5V6J?TVpmCTDTa5zgdfx

3-1-2 | 9-0-2 | 13-0-0 | 14-11-2 | 21-1-10
3-1-2 | 5-11-0 | 3-11-14 | 1-11-2 | 6-2-8

Scale = 1:35.4



3-1-2 | 9-0-2 | 13-0-0 | 14-11-2 | 21-1-10
3-1-2 | 5-11-0 | 3-11-14 | 1-11-2 | 6-2-8

Plate Offsets (X,Y)-- [5:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.11	10-11	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.17	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 94 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
14-15,10-17,4-17: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (4-3-1 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-6 oc bracing.
WEBS 1 Row at midpt 6-8

REACTIONS. (size) 14=0-5-8, 8=0-5-8
Max Horz 14=-191(LC 10)
Max Uplift 14=-68(LC 10), 8=-68(LC 11)
Max Grav 14=889(LC 29), 8=889(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-871/519, 1-2=-938/605, 2-3=-938/605, 3-4=-1574/910, 4-6=-1574/910
BOT CHORD 13-14=-321/344, 11-13=-1183/1815, 10-11=-1183/1815, 9-10=-1183/1815, 8-9=-946/1574
WEBS 1-13=-725/1236, 2-13=-345/299, 3-13=-953/643, 3-17=-264/254, 9-17=-276/262, 6-9=-46/332, 6-8=-1635/993

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 14 and 68 lb uplift at joint 8.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-58, 8-14=-20

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T04	Flat	2	1	I50479065 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-18=-58, 4=-57-to-7=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-48, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-18=-48, 4=-48-to-7=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-18=-60, 4=-60-to-7=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	T05	FLAT GIRDER	2	1	I50479066
					Job Reference (optional)

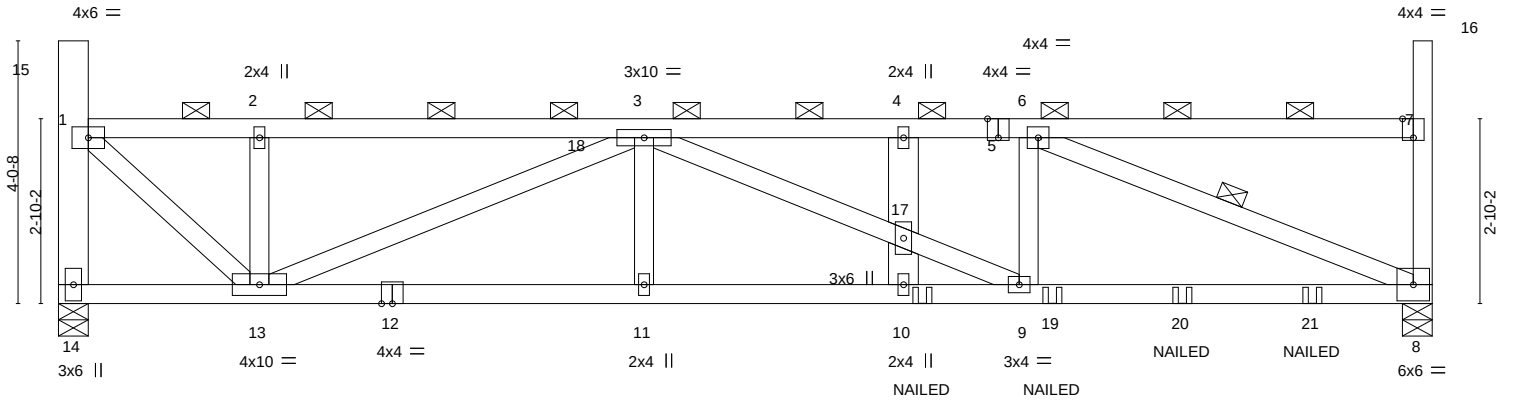
Mill Creek Truss, Halstead, KS 67056, Mitek

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 03:57:22 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-XEfN3OaopoJnlMqVrD5YXHDKxSY0z1WKqpQYHkzfPPx

3-1-2	9-0-2	13-0-0	14-11-2	21-1-10
3-1-2	5-11-0	3-11-14	1-11-2	6-2-8

Scale = 1:35.4



3-1-2	9-0-2	13-0-0	14-11-2	21-1-10
3-1-2	5-11-0	3-11-14	1-11-2	6-2-8

Plate Offsets (X,Y)-- [5:0-2-0,Edge], [7:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.17	8-9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.19	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.06	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 95 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except* 14-15,10-17,4-17: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD	2-0-0 oc purlins (3-11-5 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-5-2 oc bracing.
WEBS	1 Row at midpt 6-8

REACTIONS. (lb/size) 14=917/0-5-8, 8=1038/0-5-8
Max Horz 14=-189(LC 10)
Max Uplift 14=-217(LC 10), 8=-474(LC 11)
Max Grav 14=941(LC 29), 8=1063(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-922/521, 1-2=-980/598, 2-18=-980/598, 3-18=-980/598, 3-4=-1834/951, 4-5=-1834/951, 5-6=-1834/951
BOT CHORD	13-14=-315/338, 12-13=-1173/1965, 11-12=-1173/1965, 10-11=-1173/1965, 9-10=-1173/1965, 9-19=-953/1834, 19-20=-953/1834, 20-21=-953/1834, 8-21=-953/1834
WEBS	1-13=-722/1301, 2-13=-344/299, 3-13=-1072/639, 3-17=-419/237, 9-17=-417/244, 6-9=-282/377, 6-8=-1904/995

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 14 and 474 lb uplift at joint 8.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	T05	FLAT GIRDER	2	1	I50479066
					Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-18=-58, 8-14=-20
   Concentrated Loads (lb)
   Vert: 10=-56(F) 19=-56(F) 20=-56(F) 21=-56(F)
   Trapezoidal Loads (plf)
   Vert: 1=-73-to-18=-58, 4=-57-to-7=-73
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-18=-48, 8-14=-20
   Concentrated Loads (lb)
   Vert: 10=-47(F) 19=-47(F) 20=-47(F) 21=-49(F)
   Trapezoidal Loads (plf)
   Vert: 1=-60-to-18=-48, 4=-48-to-7=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-18=-36, 8-14=-20
   Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
   Concentrated Loads (lb)
   Vert: 10=124(F) 19=124(F) 20=124(F) 21=-79(F)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-18=-36, 8-14=-20
   Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
   Concentrated Loads (lb)
   Vert: 10=124(F) 19=124(F) 20=124(F) 21=-52(F)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-18=-36, 8-14=-20
   Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
   Concentrated Loads (lb)
   Vert: 10=124(F) 19=124(F) 20=124(F) 21=-70(F)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-18=-36, 8-14=-20
   Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
   Concentrated Loads (lb)
   Vert: 10=124(F) 19=124(F) 20=124(F) 21=-70(F)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-18=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 10=-56(F) 19=-56(F) 20=-56(F) 21=-58(F)
   Trapezoidal Loads (plf)
   Vert: 1=-75-to-18=-60, 4=-60-to-7=-75

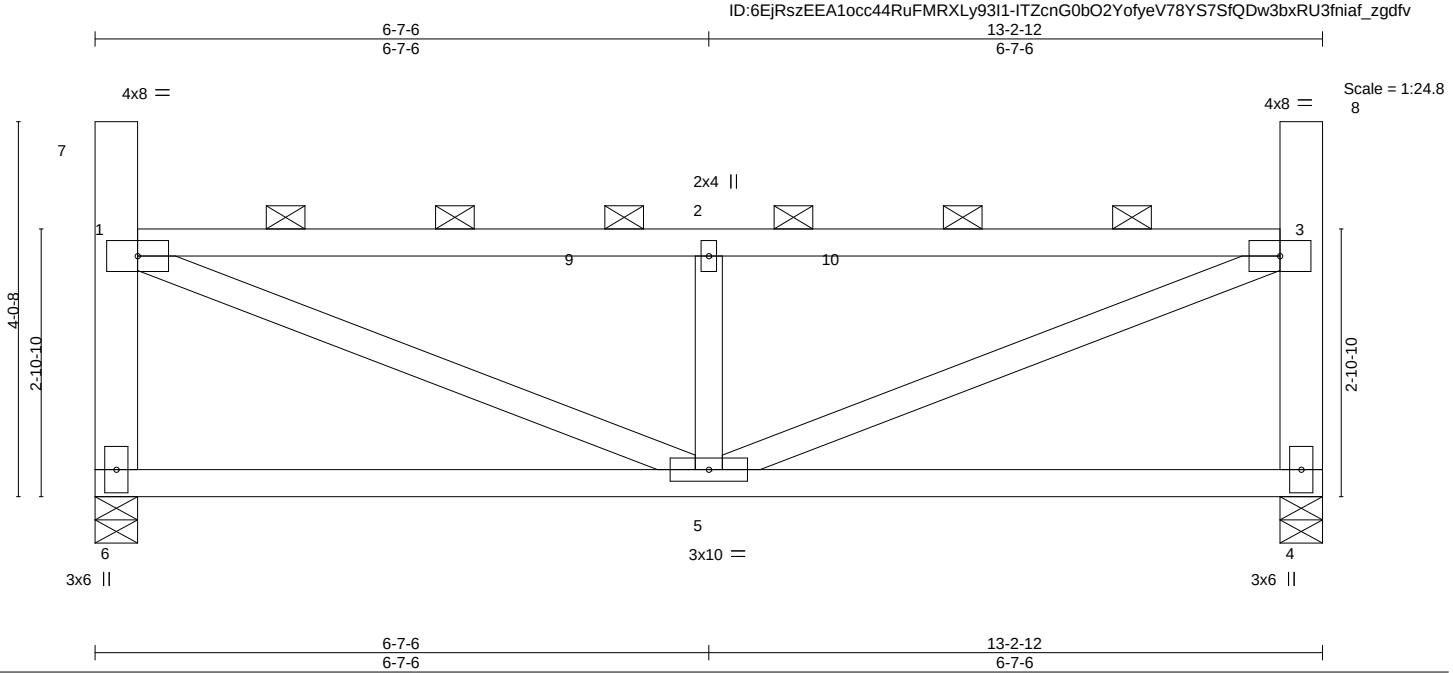
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T06	Flat Structural Gable	2	1	I50479067
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:32 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-ITZcnG0bO2YofyeV78YS7SfQDw3bxRU3fniaf_zgdfv



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.04	5-6	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.08	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 60 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
6-7,4-8: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (5-10-6 max.): 1-7, 1-3, 3-8, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-7 oc bracing.

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=-187(LC 10)
Max Uplift 6=-5(LC 10), 4=-5(LC 11)
Max Grav 6=569(LC 2), 4=569(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-509/425, 1-2=-817/460, 2-3=-817/460, 3-4=-509/425
BOT CHORD 5-6=-380/341
WEBS 1-5=-674/813, 2-5=-477/461, 3-5=-676/813

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 6 and 5 lb uplift at joint 4.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-63, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-9=-63, 10=-63-to-3=-73

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T06	Flat Structural Gable	2	1	I50479067 Job Reference (optional)

LOAD CASE(S) Standard

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 9-10=-65, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-75-to-9=-65, 10=-65-to-3=-75
3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 9-10=-55, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-65-to-9=-55, 10=-55-to-3=-65
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 9-10=-54, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-63-to-9=-54, 10=-54-to-3=-63
5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: 9-10=-25, 4-6=-40
   Trapezoidal Loads (plf)
      Vert: 1=-35-to-9=-25, 10=-25-to-3=-35
6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=66, 4-6=-12
      Horz: 1-6=22, 1-7=108, 3-4=37, 3-8=61
   Trapezoidal Loads (plf)
      Vert: 1=57-to-9=66, 10=66-to-3=57
7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=66, 4-6=-12
      Horz: 1-6=-37, 1-7=-61, 3-4=-22, 3-8=-108
   Trapezoidal Loads (plf)
      Vert: 1=57-to-9=66, 10=66-to-3=57
8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-39, 4-6=-20
      Horz: 1-6=-26, 1-7=39, 3-4=-34, 3-8=61
   Trapezoidal Loads (plf)
      Vert: 1=-48-to-9=-39, 10=-39-to-3=-48
9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-39, 4-6=-20
      Horz: 1-6=34, 1-7=-61, 3-4=26, 3-8=-39
   Trapezoidal Loads (plf)
      Vert: 1=-48-to-9=-39, 10=-39-to-3=-48
10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=11, 4-6=-12
      Horz: 1-6=12, 1-7=50, 3-4=18, 3-8=33
   Trapezoidal Loads (plf)
      Vert: 1=1-to-9=11, 10=11-to-3=1
11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=11, 4-6=-12
      Horz: 1-6=-18, 1-7=-33, 3-4=-12, 3-8=-50
   Trapezoidal Loads (plf)
      Vert: 1=1-to-9=11, 10=11-to-3=1
12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-9, 4-6=-20
      Horz: 1-6=24, 1-7=50, 3-4=6, 3-8=33
   Trapezoidal Loads (plf)
      Vert: 1=-18-to-9=-9, 10=-9-to-3=-18
13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-9, 4-6=-20
      Horz: 1-6=-6, 1-7=-33, 3-4=-24, 3-8=-50
   Trapezoidal Loads (plf)
      Vert: 1=-18-to-9=-9, 10=-9-to-3=-18
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=11, 4-6=-12
      Horz: 1-6=7, 1-7=-33, 3-4=15, 3-8=33
   Trapezoidal Loads (plf)
      Vert: 1=1-to-9=11, 10=11-to-3=1
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T06	Flat Structural Gable	2	1	I50479067 Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 9-10=11, 4-6=-12
Horz: 1-6=-15, 1-7=-33, 3-4=-7, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=11, 10=11-to-3=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=11, 4-6=-12
Horz: 1-6=7, 1-7=-33, 3-4=15, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=11, 10=11-to-3=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=11, 4-6=-12
Horz: 1-6=-15, 1-7=-33, 3-4=-7, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=11, 10=11-to-3=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-9, 4-6=-20
Horz: 1-6=19, 1-7=-33, 3-4=4, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-9=-9, 10=-9-to-3=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-9, 4-6=-20
Horz: 1-6=-4, 1-7=-33, 3-4=-19, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-9=-9, 10=-9-to-3=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 9-10=-25, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-9=-25, 10=-25-to-3=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-41, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-41, 10=-41-to-3=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-41, 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-41, 10=-41-to-3=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-41, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-41, 10=-41-to-3=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-41, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-41, 10=-41-to-3=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-43, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-9=-43, 10=-43-to-3=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-43, 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-9=-43, 10=-43-to-3=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-43, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-9=-43, 10=-43-to-3=-53

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T06	Flat Structural Gable	2	1	I50479067 Job Reference (optional)

LOAD CASE(S) Standard

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-43, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-9=-43, 10=-43-to-3=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-65, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-65, 10=-65-to-3=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-34, 4-6=-12
Horz: 1-6=-16, 1-7=33, 3-4=-16, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-9=-34, 10=-34-to-3=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-1, 4-6=-12
Horz: 1-6=16, 1-7=33, 3-4=16, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-9=-1, 10=-1-to-3=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-65, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-65, 10=-65-to-3=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-65, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-65, 10=-65-to-3=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-55, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-9=-55, 10=-55-to-3=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-55, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-9=-55, 10=-55-to-3=-65

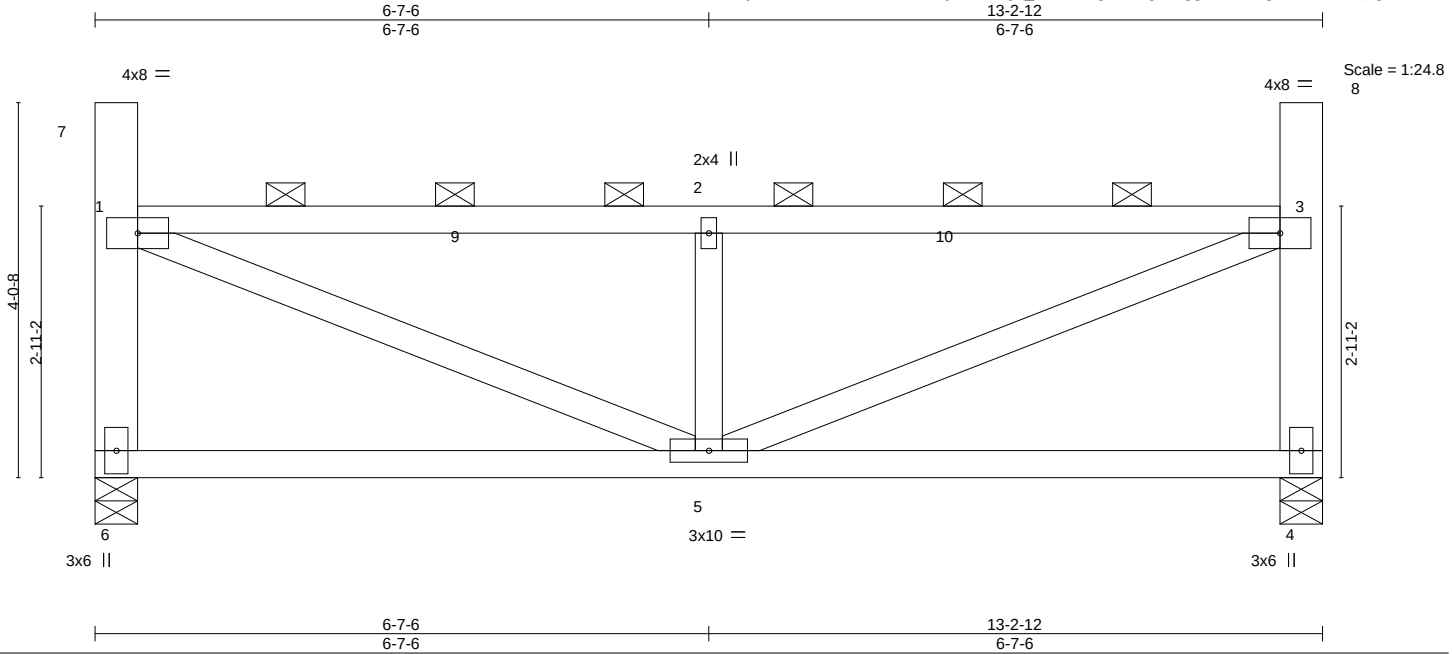
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T07	Flat	2	1	I50479068
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:33 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-mg7_?c1D9MgfH6Digs3hggCa1KPngt?CuRS7BQzgdfu



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.04	5-6	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.08	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.58	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 60 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
6-7,4-8: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, 3-8, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-7 oc bracing.

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=-185(LC 10)
Max Uplift 6=-63(LC 10), 4=-63(LC 11)
Max Grav 6=539(LC 29), 4=539(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-479/482, 1-2=-753/523, 2-3=-753/523, 3-4=-479/482
BOT CHORD 5-6=-379/327
WEBS 1-5=-730/750, 2-5=-437/513, 3-5=-732/750

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 6 and 63 lb uplift at joint 4.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-58, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-9=-58, 10=-58-to-3=-73

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T07	Flat	2	1	I50479068 Job Reference (optional)

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 9-10=-48, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-60-to-9=-48, 10=-48-to-3=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-36, 4-6=-20
      Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-36, 4-6=-20
      Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-36, 4-6=-20
      Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-36, 4-6=-20
      Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 9-10=-60, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-75-to-9=-60, 10=-60-to-3=-75

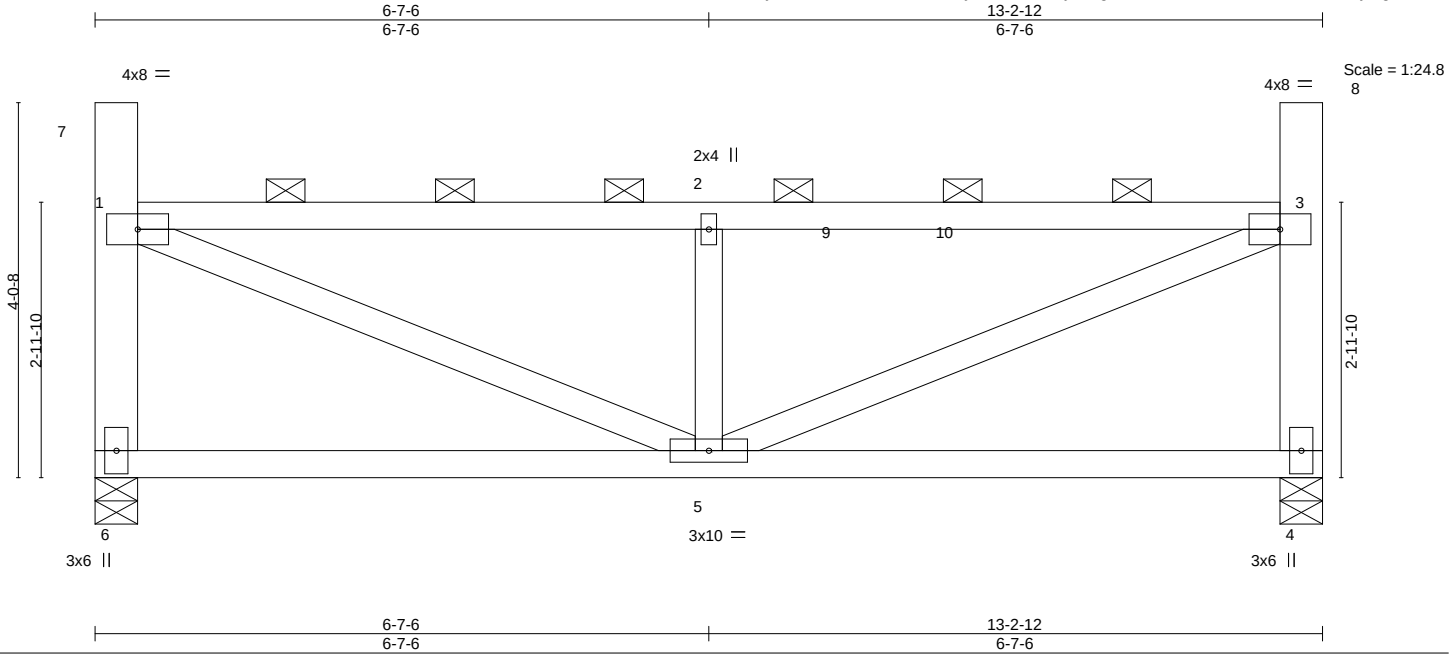
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T08	Flat	2	1	I50479069
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:34 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-EshNCy1rwgoWuGouEZawCtllokk0PJKM75Bhjszgdft



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.04	5-6	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.08	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.58	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 60 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
6-7,4-8: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, 3-8, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-9 oc bracing.

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=-182(LC 10)
Max Uplift 6=-63(LC 10), 4=-63(LC 11)
Max Grav 6=560(LC 29), 4=548(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-500/481, 1-2=-767/516, 2-3=-767/516, 3-4=-488/481
BOT CHORD 5-6=-372/321
WEBS 1-5=-718/764, 2-5=-457/513, 3-5=-721/769

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 6 and 63 lb uplift at joint 4.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-58, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-9=-58, 10=-58-to-3=-73

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T08	Flat	2	1	I50479069 Job Reference (optional)

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 9-10=-48, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-60-to-9=-48, 10=-48-to-3=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-36, 4-6=-20
      Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-36, 4-6=-20
      Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-36, 4-6=-20
      Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 9-10=-36, 4-6=-20
      Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 9-10=-60, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-75-to-9=-60, 10=-60-to-3=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	T09	FLAT GIRDER	2	1	I50479070
					Job Reference (optional)

Mill Creek Truss, Halstead, KS 67056, Mitek

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 04:01:03 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-ZlWwRzFQmh9QmKDzI8ZN_ut8SX3bF2MsehSkYQzfPMU

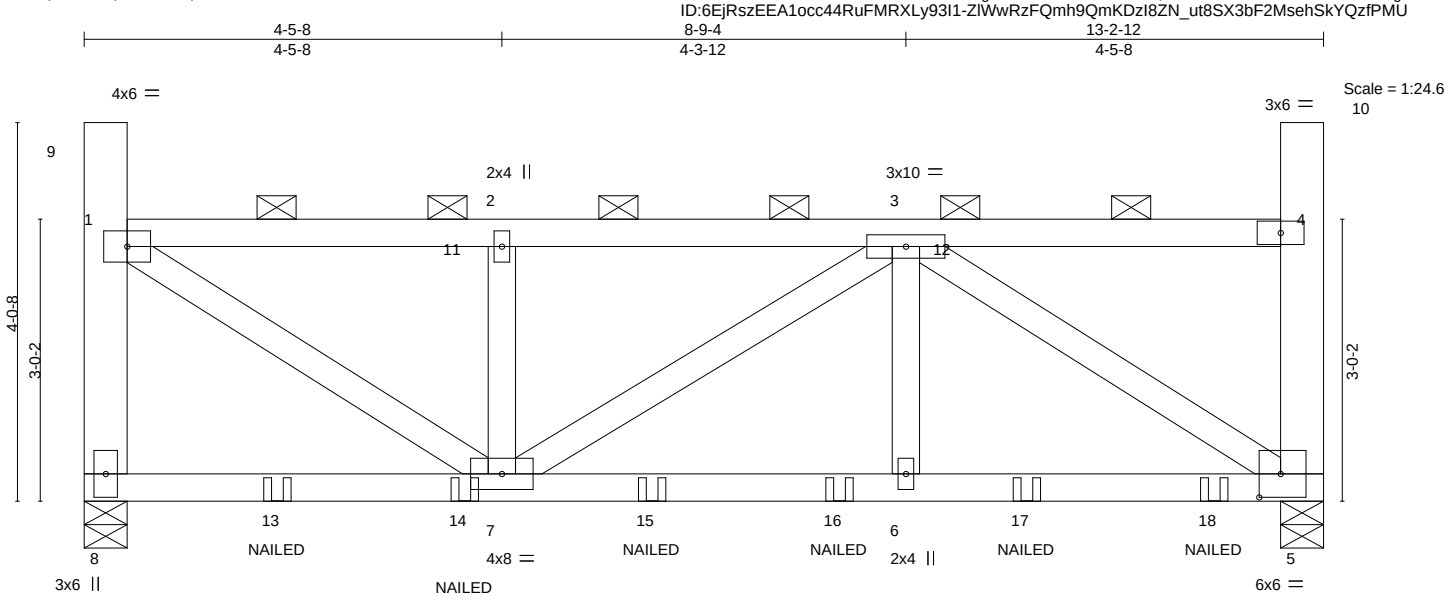


Plate Offsets (X,Y)-- [5:0-2-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.05	6-7	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.05	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 64 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except*
	8-9,5-10: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD	2-0-0 oc purlins (5-11-6 max.): 1-9, 1-4, 4-10, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-10-3 oc bracing.

REACTIONS. (lb/size) 8=780/0-5-8, 5=819/0-5-8
Max Horz 8=-180(LC 12)
Max Uplift 8=-400(LC 10), 5=-380(LC 11)
Max Grav 8=795(LC 29), 5=837(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-8=-703/474, 1-11=-917/523, 2-11=-917/523, 2-3=-917/523
BOT CHORD	8-13=-344/334, 13-14=-344/334, 7-14=-344/334, 7-15=-560/921, 15-16=-560/921, 6-16=-560/921, 6-17=-560/921, 17-18=-560/921, 5-18=-560/921
WEBS	1-7=-616/1040, 2-7=-271/321, 3-6=-204/293, 3-5=-1041/625

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 400 lb uplift at joint 8 and 380 lb uplift at joint 5.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	T09	FLAT GIRDER	2	1	I50479070 Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 11-12=-58, 5-8=-20
   Concentrated Loads (lb)
   Vert: 13=-92(F) 14=-92(F) 15=-92(F) 16=-92(F) 17=-92(F) 18=-92(F)
   Trapezoidal Loads (plf)
   Vert: 1=-73-to-11=-58, 12=-58-to-4=-73
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 11-12=-48, 5-8=-20
   Concentrated Loads (lb)
   Vert: 13=-78(F) 14=-78(F) 15=-78(F) 16=-78(F) 17=-78(F) 18=-81(F)
   Trapezoidal Loads (plf)
   Vert: 1=-60-to-11=-48, 12=-48-to-4=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 11-12=-36, 5-8=-20
   Horz: 1-8=18, 1-9=37, 4-5=5, 4-10=25
   Concentrated Loads (lb)
   Vert: 13=74(F) 14=74(F) 15=74(F) 16=74(F) 17=74(F) 18=-131(F)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-11=-36, 12=-36-to-4=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 11-12=-36, 5-8=-20
   Horz: 1-8=-5, 1-9=-25, 4-5=-18, 4-10=-37
   Concentrated Loads (lb)
   Vert: 13=74(F) 14=74(F) 15=74(F) 16=74(F) 17=74(F) 18=-86(F)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-11=-36, 12=-36-to-4=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 11-12=-36, 5-8=-20
   Horz: 1-8=14, 1-9=-25, 4-5=3, 4-10=25
   Concentrated Loads (lb)
   Vert: 13=74(F) 14=74(F) 15=74(F) 16=74(F) 17=74(F) 18=-116(F)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-11=-36, 12=-36-to-4=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 11-12=-36, 5-8=-20
   Horz: 1-8=-3, 1-9=-25, 4-5=-14, 4-10=25
   Concentrated Loads (lb)
   Vert: 13=74(F) 14=74(F) 15=74(F) 16=74(F) 17=74(F) 18=-116(F)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-11=-36, 12=-36-to-4=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 11-12=-60, 5-8=-20
   Concentrated Loads (lb)
   Vert: 13=-92(F) 14=-92(F) 15=-92(F) 16=-92(F) 17=-92(F) 18=-95(F)
   Trapezoidal Loads (plf)
   Vert: 1=-75-to-11=-60, 12=-60-to-4=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	T10	JACK-CLOSED GIRDER	2	2	I50479071
					Job Reference (optional)

Mill Creek Truss, Halstead, KS 67056, Mitek

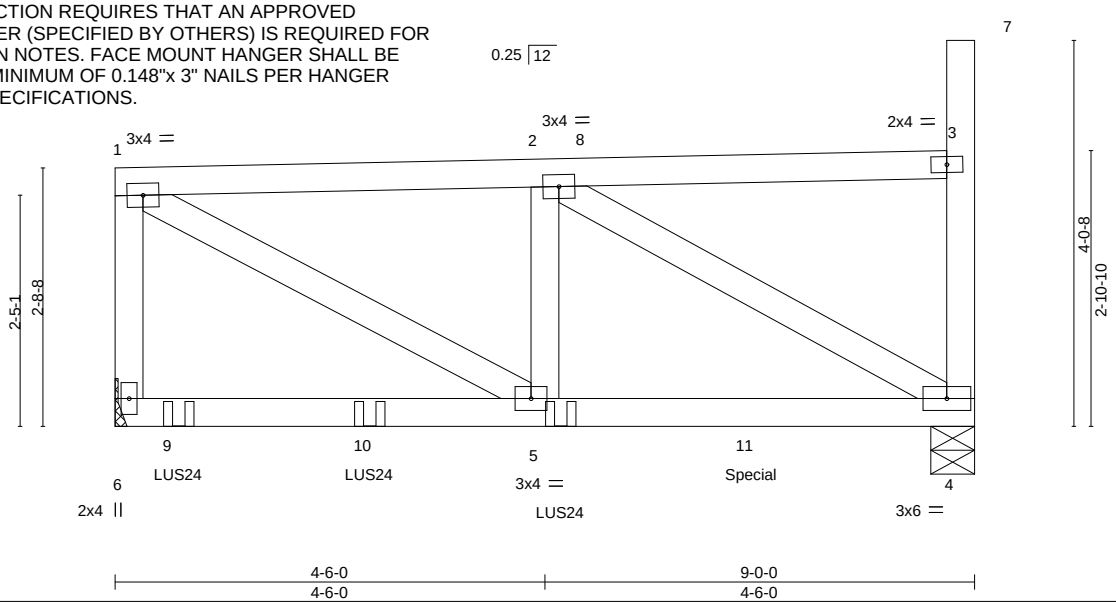
8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 04:03:09 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-t?7Zu2nS5P1YthsBgbqw5T5hwKzVm6oPcIzPz7zfPKW

4-6-0 | 9-0-0
4-6-0 | 4-6-0

PLY-TO-PLY CONNECTION REQUIRES THAT AN APPROVED FACE MOUNT HANGER (SPECIFIED BY OTHERS) IS REQUIRED FOR LOADS REPORTED IN NOTES. FACE MOUNT HANGER SHALL BE ATTACHED WITH A MINIMUM OF 0.148"x 3" NAILS PER HANGER MANUFACTURER SPECIFICATIONS.

Scale: 1/2"=1'



4-6-0 | 9-0-0
4-6-0 | 4-6-0

Plate Offsets (X,Y)-- [3:0-0-0,0-0-0], [4:0-0-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.10	4-5	>999	240	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.10	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 80 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=1045/Mechanical, 4=900/0-5-8
Max Horz 6=143(LC 11)
Max Uplift 6=-208(LC 10), 4=-223(LC 11)
Max Grav 6=1118(LC 29), 4=1013(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-780/538, 1-2=-1172/662
BOT CHORD 6-9=-286/198, 9-10=-286/198, 5-10=-286/198, 5-11=-735/1170, 4-11=-735/1170
WEBS 1-5=-786/1338, 2-5=-131/399, 2-4=-1317/807

NOTES-

1) n/a
2) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
3) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
4) Unbalanced roof live loads have been considered for this design.
5) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
6) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
7) Provide adequate drainage to prevent water ponding.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint 6 and 223 lb uplift at joint 4.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
14) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-8-0 from the left end to 4-8-0 to connect truss(es) to front face of bottom chord.

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	T10	JACK-CLOSED GIRDER	2	2	I50479071 Job Reference (optional)

NOTES-

15) Fill all nail holes where hanger is in contact with lumber.
16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 729 lb down and 475 lb up at 6-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-48, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-293(F) 9=-298(F) 10=-293(F) 11=-442(F)
   Trapezoidal Loads (plf)
   Vert: 8=-48-to-3=-63
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-41, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-254(F) 9=-259(F) 10=-254(F) 11=-397(F)
   Trapezoidal Loads (plf)
   Vert: 8=-41-to-3=-52
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-28, 4-6=-20
   Horz: 1-6=18, 1-3=-12, 3-4=5, 3-7=37
   Concentrated Loads (lb)
   Vert: 5=40(F) 9=35(F) 10=40(F) 11=-669(F)
   Trapezoidal Loads (plf)
   Vert: 8=-28-to-3=-40
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-36, 4-6=-20
   Horz: 1-6=-5, 1-3=-5, 3-4=-18, 3-7=-37
   Concentrated Loads (lb)
   Vert: 5=40(F) 9=35(F) 10=40(F) 11=-425(F)
   Trapezoidal Loads (plf)
   Vert: 8=-36-to-3=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-28, 4-6=-20
   Horz: 1-6=14, 1-3=-12, 3-4=3, 3-7=25
   Concentrated Loads (lb)
   Vert: 5=40(F) 9=35(F) 10=40(F) 11=-588(F)
   Trapezoidal Loads (plf)
   Vert: 8=-28-to-3=-40
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-36, 4-6=-20
   Horz: 1-6=-3, 1-3=-5, 3-4=-14, 3-7=25
   Concentrated Loads (lb)
   Vert: 5=40(F) 9=35(F) 10=40(F) 11=-588(F)
   Trapezoidal Loads (plf)
   Vert: 8=-36-to-3=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-60, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-293(F) 9=-298(F) 10=-293(F) 11=-522(F)
   Trapezoidal Loads (plf)
   Vert: 8=-60-to-3=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T11	Flat Supported Gable	2	1	I50479072
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:38 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-7dwt2J5MzuJxNt5fTPfsNjvWCL9iLE8x2j9usdzgdfp

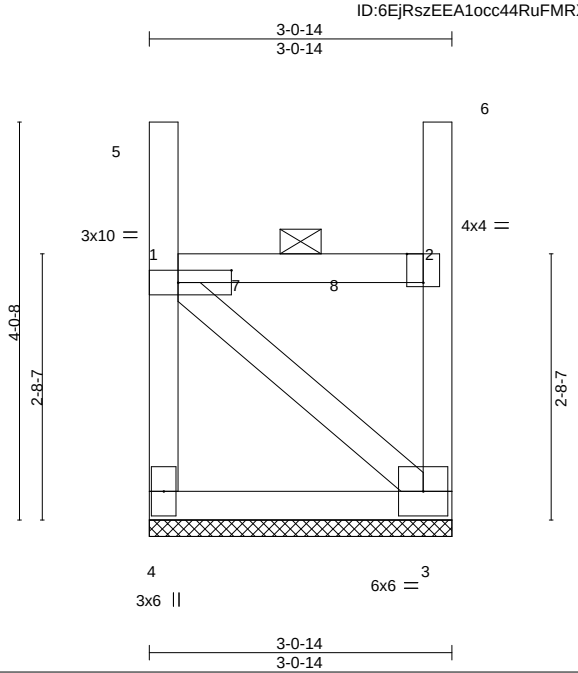


Plate Offsets (X,Y)-- [1:0-6-8,0-1-8], [2:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 19 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, 2-6, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-6-2 oc bracing.

REACTIONS. (size) 4=3-0-14, 3=3-0-14
Max Horz 4=-196(LC 10)
Max Uplift 4=-177(LC 10), 3=-177(LC 11)
Max Grav 4=216(LC 22), 3=211(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-313/587, 1-2=-252/212
BOT CHORD 3-4=-483/494
WEBS 1-3=-613/614

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 4 and 177 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 1,2022

LOAD CASE(S) Standard Except:

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T11	Flat Supported Gable	2	1	I50479072 Job Reference (optional)

LOAD CASE(S) Standard Except:

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-73-to-7=-62, 7=-62-to-2=-73
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-8=-48, 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-60-to-7=-53, 7=-53-to-8=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-8=-36, 3-4=-20
   Horz: 1-4=18, 1-5=37, 2-3=5, 2-6=25
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-7=-41, 7=-41-to-8=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-8=-36, 3-4=-20
   Horz: 1-4=-5, 1-5=-25, 2-3=-18, 2-6=-37
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-7=-41, 7=-41-to-8=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-8=-36, 3-4=-20
   Horz: 1-4=14, 1-5=-25, 2-3=3, 2-6=25
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-7=-41, 7=-41-to-8=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-8=-36, 3-4=-20
   Horz: 1-4=-3, 1-5=-25, 2-3=-14, 2-6=25
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-7=-41, 7=-41-to-8=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-75-to-7=-65, 7=-65-to-2=-75

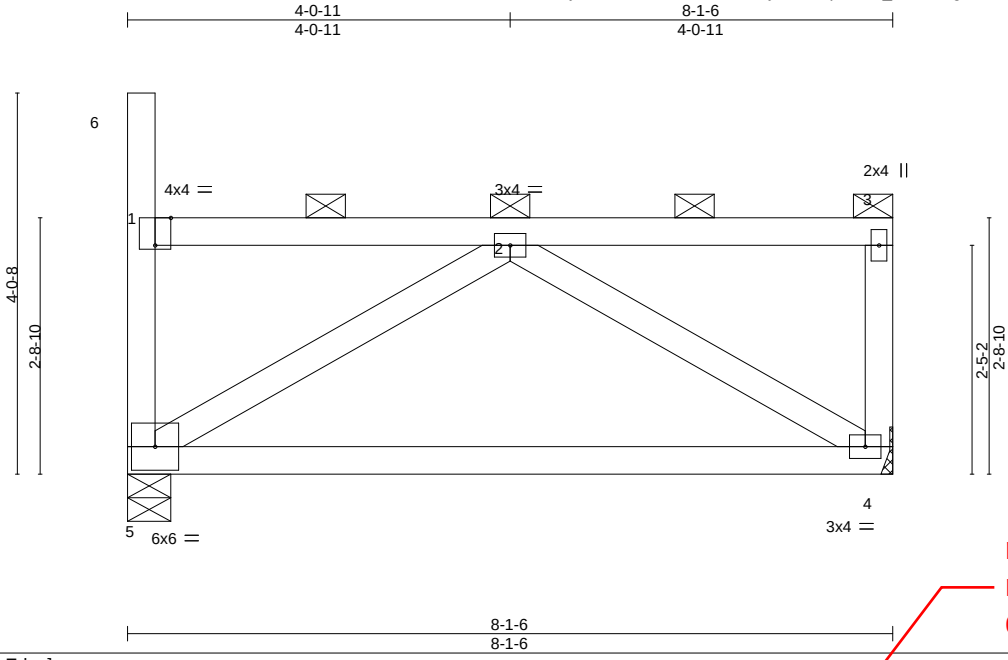
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T12	Flat	2	1	I50479073
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:39 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-bqUGFf5_kCRo?1gs16A5vxShdlKq4iu5GNvSO4zgdfo



revise as required to meet project deflection limits, -bdc

Plate Offsets (X,Y)-- [1:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.22	4-5	>418	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.45	4-5	>209	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.11	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP							Weight: 35 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-8 oc bracing.

REACTIONS. (size) 5=0-5-8, 4=Mechanical
Max Horz 5=-147(LC 10)
Max Uplift 5=-58(LC 10), 4=-58(LC 11)
Max Grav 5=337(LC 29), 4=318(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 4-5=-465/240
WEBS 2-5=-258/519, 2-4=-282/512

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 5 and 58 lb uplift at joint 4.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-58, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-2=-57

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T12	Flat	2	1	I50479073 Job Reference (optional)

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-48, 4-5=-20
   Trapezoidal Loads (plf)
      Vert: 1=-60-to-2=-48
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-3=-36, 4-5=-20
      Horz: 1-5=18, 1-6=37, 3-4=5
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-2=-36
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-3=-36, 4-5=-20
      Horz: 1-5=-5, 1-6=-37, 3-4=-18
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-2=-36
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-3=-36, 4-5=-20
      Horz: 1-5=14, 1-6=-25, 3-4=3
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-2=-36
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-3=-36, 4-5=-20
      Horz: 1-5=-3, 1-6=-25, 3-4=-14
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-2=-36
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-60, 4-5=-20
   Trapezoidal Loads (plf)
      Vert: 1=-75-to-2=-60

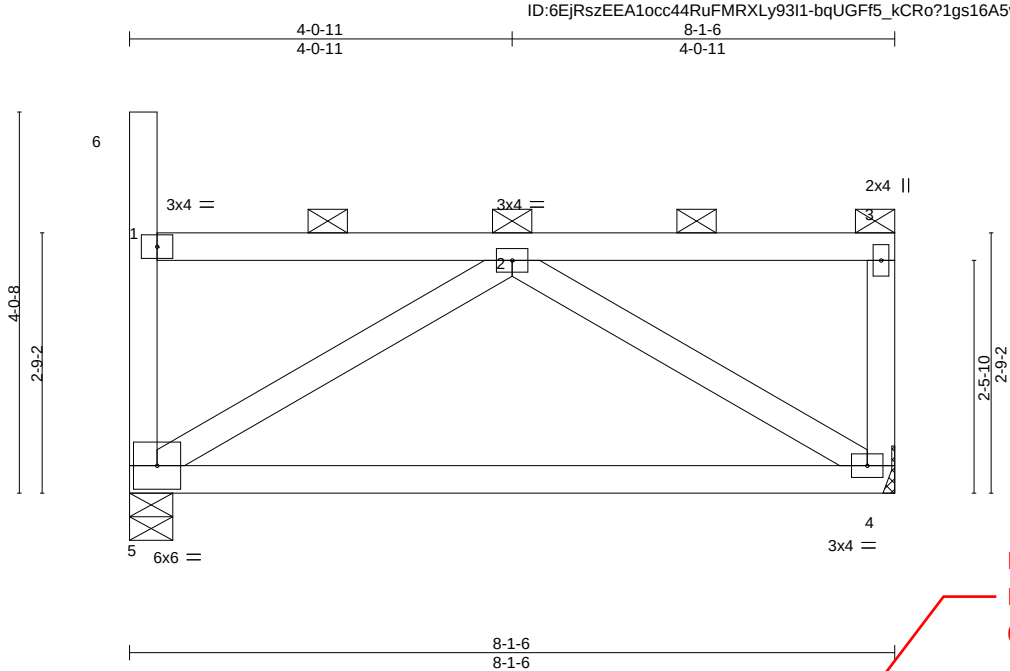
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T13	Flat	2	1	I50479074
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:39 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-bqUGFf5_kCRo?1gs16A5vxShelKq4iw5GNvSO4zgdfo



revise as required to meet project deflection limits, -bdc

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.22	4-5	>418	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.45	4-5	>209	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.11	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP							Weight: 35 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-3 oc bracing.

REACTIONS. (size) 5=0-5-8, 4=Mechanical
Max Horz 5=-146(LC 10)
Max Uplift 5=-58(LC 10), 4=-58(LC 11)
Max Grav 5=337(LC 29), 4=318(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 4-5=-458/236
WEBS 2-5=-255/513, 2-4=-279/506

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 5 and 58 lb uplift at joint 4.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-58, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-2=-57

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T13	Flat	2	1	I50479074 Job Reference (optional)

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-48, 4-5=-20
   Trapezoidal Loads (plf)
      Vert: 1=-60-to-2=-48
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-3=-36, 4-5=-20
      Horz: 1-5=18, 1-6=37, 3-4=5
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-2=-36
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-3=-36, 4-5=-20
      Horz: 1-5=-5, 1-6=-37, 3-4=-18
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-2=-36
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-3=-36, 4-5=-20
      Horz: 1-5=14, 1-6=-25, 3-4=3
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-2=-36
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-3=-36, 4-5=-20
      Horz: 1-5=-3, 1-6=-25, 3-4=-14
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-2=-36
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-60, 4-5=-20
   Trapezoidal Loads (plf)
      Vert: 1=-75-to-2=-60

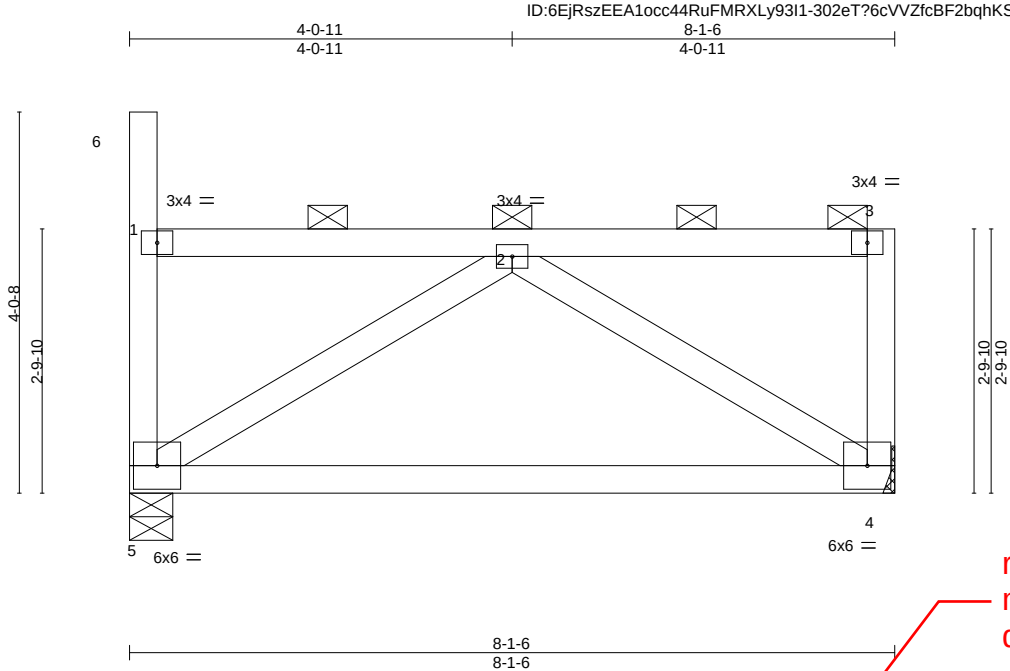
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T14	Flat	2	1	I50479075
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:40 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-302eT?6cVVZfcBF2bqhKS8?sP8f3p9AEV0e?xWzgdfn



revise as required to meet project deflection limits, -bdc

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.22	4-5	>418	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.45	4-5	>209	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.11	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 35 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-0 oc bracing.

REACTIONS. (size) 5=0-5-8, 4=Mechanical
Max Horz 5=-145(LC 10)
Max Uplift 5=-58(LC 10), 4=-58(LC 11)
Max Grav 5=337(LC 29), 4=318(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 4-5=-452/232
WEBS 2-5=-252/508, 2-4=-275/500

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 5 and 58 lb uplift at joint 4.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-58, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-2=-57

STATE OF MISSOURI
SCOTT M. SEVIER
PE-2001018807
PROFESSIONAL ENGINEER

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T14	Flat	2	1	I50479075 Job Reference (optional)

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-48, 4-5=-20
   Trapezoidal Loads (plf)
      Vert: 1=-60-to-2=-48
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-3=-36, 4-5=-20
      Horz: 1-5=18, 1-6=37, 3-4=5
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-2=-36
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-3=-36, 4-5=-20
      Horz: 1-5=-5, 1-6=-37, 3-4=-18
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-2=-36
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-3=-36, 4-5=-20
      Horz: 1-5=14, 1-6=-25, 3-4=3
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-2=-36
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-3=-36, 4-5=-20
      Horz: 1-5=-3, 1-6=-25, 3-4=-14
   Trapezoidal Loads (plf)
      Vert: 1=-47-to-2=-36
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-60, 4-5=-20
   Trapezoidal Loads (plf)
      Vert: 1=-75-to-2=-60

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

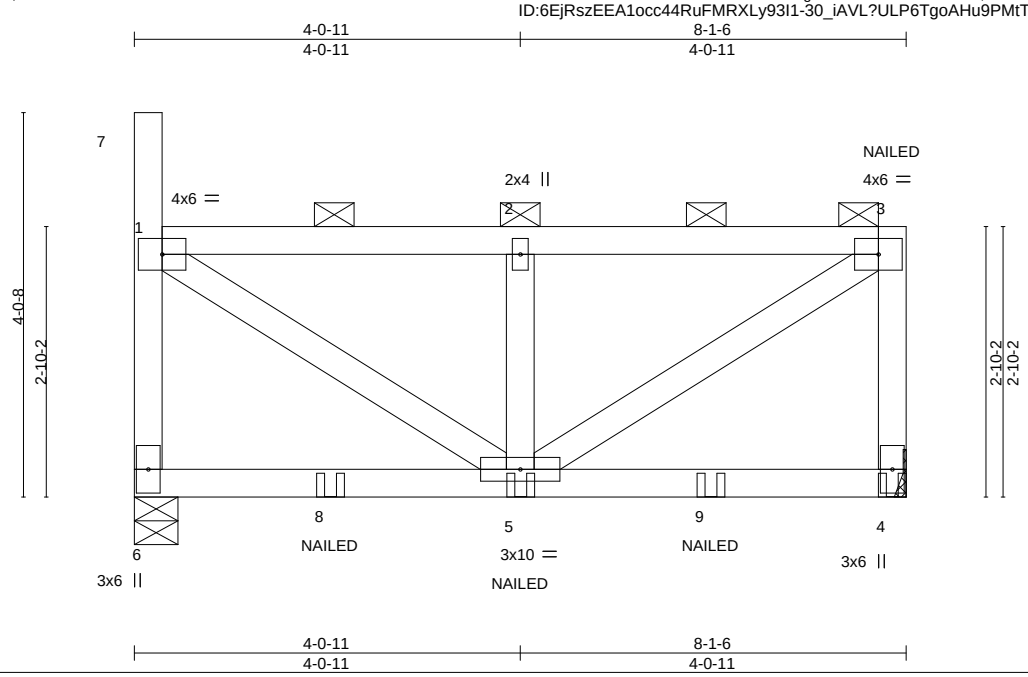
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	T15	FLAT GIRDER	2	1	I50479076
					Job Reference (optional)

Mill Creek Truss, Halstead, KS 67056, Mitek

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 04:05:19 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-30_iAVL?ULP6TgoAHu9PMtTtSkUWEusXWWTIXazfPIU



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	0.03	5-6	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	0.03	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 37 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=412/0-5-8, 4=458/Mechanical
Max Horz 6=-144(LC 10)
Max Uplift 6=-325(LC 10), 4=-352(LC 11)
Max Grav 6=421(LC 29), 4=469(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-6=-371/404, 1-2=-398/377, 2-3=-398/377, 3-4=-418/433
BOT CHORD	6-8=-244/306, 5-8=-244/306
WEBS	1-5=-451/450, 2-5=-281/401, 3-5=-469/475

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 325 lb uplift at joint 6 and 352 lb uplift at joint 4.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-58, 4-6=-20

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	T15	FLAT GIRDER	2	1	I50479076 Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 5=-56(F) 3=-65(F) 8=-56(F) 9=-56(F)
Trapezoidal Loads (plf)
Vert: 1=-73-to-2=-57
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-48, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-47(F) 3=-57(F) 8=-47(F) 9=-47(F)
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-48
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5
Concentrated Loads (lb)
Vert: 5=124(F) 3=-92(F) 8=124(F) 9=124(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=-5, 1-7=-37, 3-4=-18
Concentrated Loads (lb)
Vert: 5=124(F) 3=-61(F) 8=124(F) 9=124(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3
Concentrated Loads (lb)
Vert: 5=124(F) 3=-69(F) 8=124(F) 9=124(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14
Concentrated Loads (lb)
Vert: 5=124(F) 3=-61(F) 8=124(F) 9=124(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-56(F) 3=-67(F) 8=-56(F) 9=-56(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	T16	FLAT GIRDER	2	2	I50479077
					Job Reference (optional)

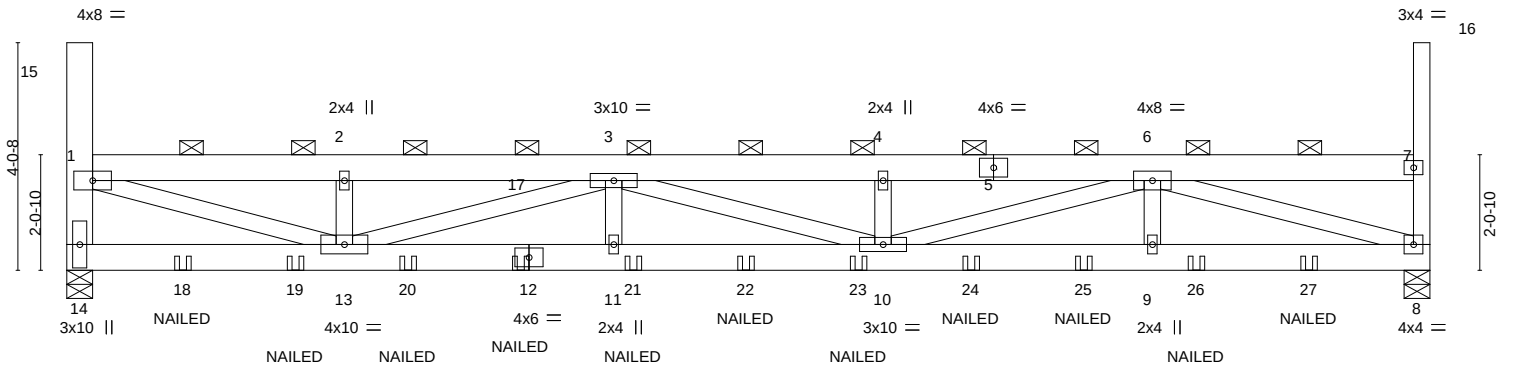
Mill Creek Truss, Halstead, KS 67056, Mitek

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 04:06:38 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-FCGalWJYtdMuSpKMQ_4x3XFPCaPfEZ0AgJ6yoVzfPHF

4-11-2	9-8-9	14-5-15	19-3-6	24-2-8
4-11-2	4-9-6	4-9-6	4-9-6	4-11-2

Scale = 1:40.9



4-11-2	9-8-9	14-5-15	19-3-6	24-2-8
4-11-2	4-9-6	4-9-6	4-9-6	4-11-2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.27	10-11	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.26	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	-0.04	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 255 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except*
14-15: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-10-15 oc bracing.

REACTIONS. (lb/size) 14=1348/0-5-8, 8=1344/0-5-8
Max Horz 14=-232(LC 12)
Max Uplift 14=-1003(LC 10), 8=-874(LC 11)
Max Grav 14=1375(LC 29), 8=1373(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-14=-1235/879, 1-2=-3239/2580, 2-17=-3239/2580, 3-17=-3239/2580, 3-4=-4878/3805, 4-5=-4878/3805, 5-6=-4878/3805, 6-7=-223/266

BOT CHORD 14-18=-517/406, 18-19=-517/406, 13-19=-517/406, 13-20=-3841/4868, 12-20=-3841/4868, 11-12=-3841/4868, 11-21=-3841/4868, 21-22=-3841/4868, 22-23=-3841/4868, 10-23=-3841/4868, 10-24=-2414/3297, 24-25=-2414/3297, 9-25=-2414/3297, 9-26=-2414/3297, 26-27=-2414/3297, 8-27=-2414/3297

WEBS 1-13=-2466/3178, 2-13=-271/260, 3-13=-1718/1397, 3-11=-348/252, 4-10=-280/263, 6-10=-1477/1667, 6-9=-269/257, 6-8=-3302/2434

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1003 lb uplift at joint 14 and 874 lb uplift at joint 8.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	T16	FLAT GIRDER	2	2	I50479077 Job Reference (optional)

NOTES-

11) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 5-17=-58, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-66(B) 18=-66(B) 19=-66(B) 20=-66(B) 21=-66(B) 22=-66(B) 23=-66(B) 24=-66(B) 25=-66(B) 26=-66(B) 27=-66(B)
   Trapezoidal Loads (plf)
   Vert: 1=-73-to-17=-58, 5=-58-to-7=-73
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 5-17=-48, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-55(B) 18=-55(B) 19=-55(B) 20=-55(B) 21=-55(B) 22=-55(B) 23=-55(B) 24=-55(B) 25=-55(B) 26=-55(B) 27=-58(B)
   Trapezoidal Loads (plf)
   Vert: 1=-60-to-17=-48, 5=-49-to-7=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 5-17=-36, 8-14=-20
   Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
   Concentrated Loads (lb)
   Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=-93(B)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 5-17=-36, 8-14=-20
   Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
   Concentrated Loads (lb)
   Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=-61(B)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 5-17=-36, 8-14=-20
   Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
   Concentrated Loads (lb)
   Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=-82(B)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 5-17=-36, 8-14=-20
   Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
   Concentrated Loads (lb)
   Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=-82(B)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 5-17=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-66(B) 18=-66(B) 19=-66(B) 20=-66(B) 21=-66(B) 22=-66(B) 23=-66(B) 24=-66(B) 25=-66(B) 26=-66(B) 27=-68(B)
   Trapezoidal Loads (plf)
   Vert: 1=-75-to-17=-60, 5=-60-to-7=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

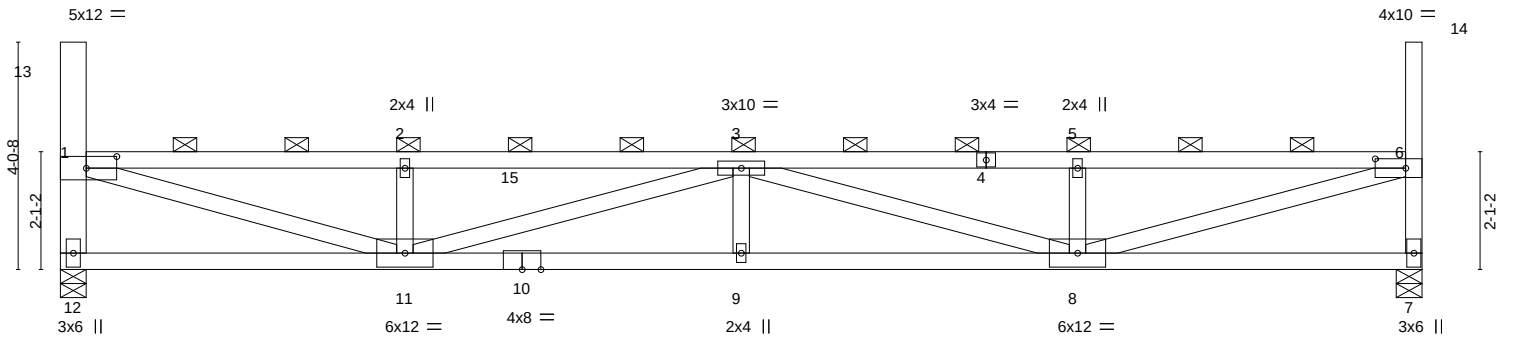
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T17	Flat	2	1	I50479078
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:44 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-xnH9JN96Zk355oZpqfmGc_9RKm_plm?qQecD4Hzgdfj

6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Scale = 1:41.0



6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Plate Offsets (X,Y)-- [1:0-6-8,0-2-8], [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	0.28	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.50	8-9	>572	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (2-11-10 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-3-3 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-228(LC 10)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-947/561, 1-2=-2542/1362, 2-3=-2542/1362, 3-5=-2569/1372, 5-6=-2569/1372, 6-7=-947/563
BOT CHORD 11-12=-473/421, 9-11=-1859/3324, 8-9=-1859/3324
WEBS 1-11=-1408/2545, 2-11=-396/336, 3-11=-827/569, 3-8=-800/550, 5-8=-402/342, 6-8=-1421/2577

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 12 and 75 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T17	Flat	2	1	I50479078 Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T18	Flat	2	1	I50479079
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:45 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-QzrXWiAlK2Byjy7?NNHV9CicM9LOUDVzfIMmcjzgdfi

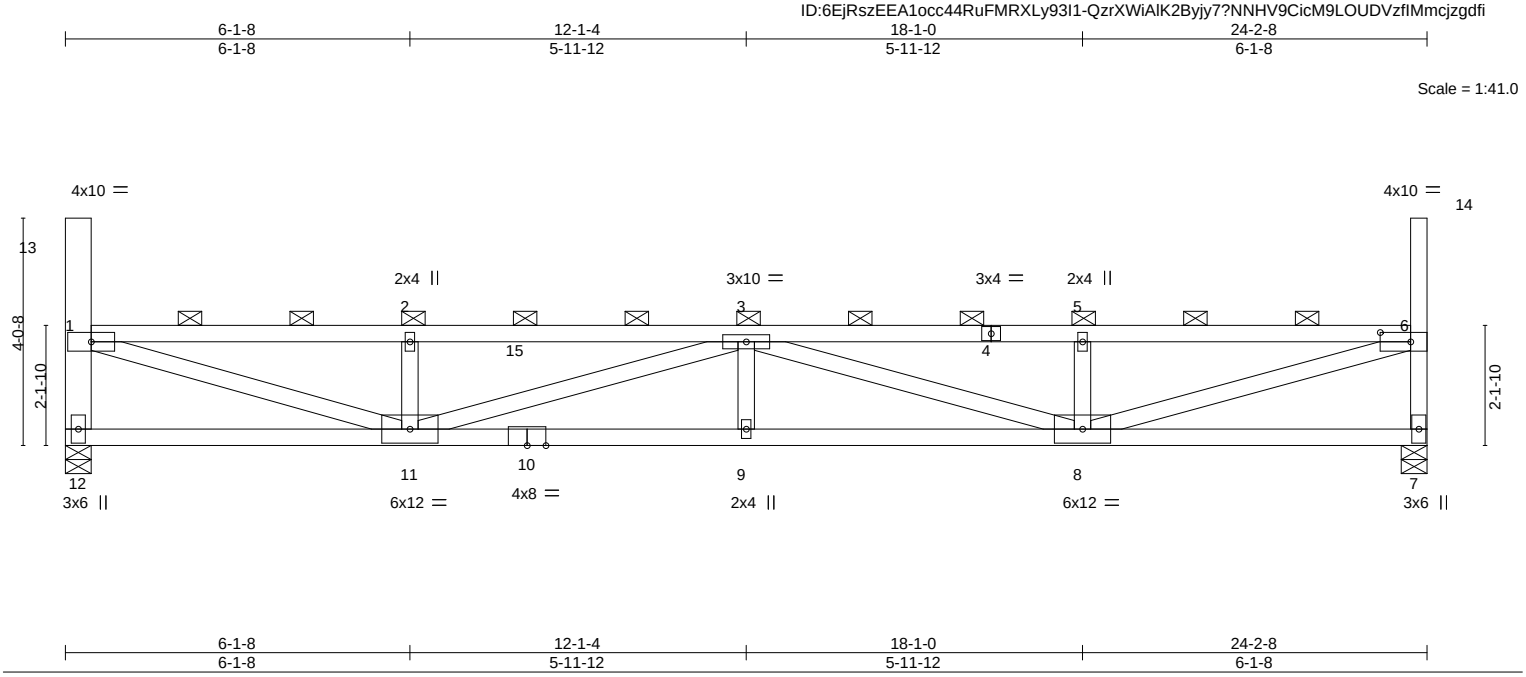


Plate Offsets (X,Y)-- [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.27	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.48	8-9	>597	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-0-5 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-3-13 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=226(LC 11)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-948/561, 1-2=-2487/1332, 2-3=-2487/1332, 3-5=-2513/1342, 5-6=-2513/1342, 6-7=-948/563
BOT CHORD 11-12=-463/413, 9-11=-1820/3250, 8-9=-1820/3250
WEBS 1-11=-1380/2496, 2-11=-396/336, 3-11=-809/556, 3-8=-783/538, 5-8=-402/343, 6-8=-1392/2527

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 12 and 75 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T18	Flat	2	1	I50479079 Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

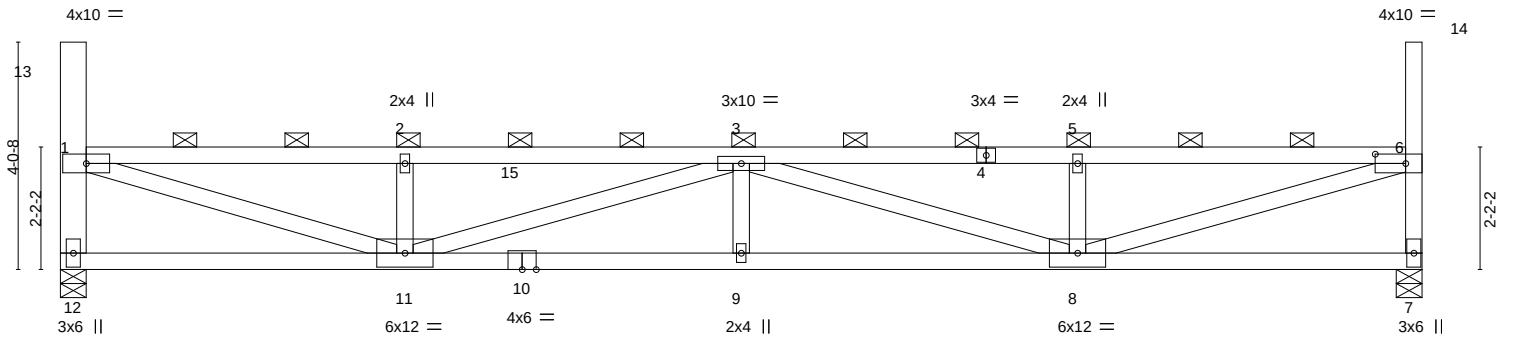
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T19	Flat	2	1	I50479080
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:46 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-uAPvj2BN5LJpK6iCx4okhPFmNZhyDg_7ty5J8Azgdfh

6-1-8	12-1-4	18-1-0	24-2-8
6-1-8	5-11-12	5-11-12	6-1-8

Scale = 1:41.0



6-1-8	12-1-4	18-1-0	24-2-8
6-1-8	5-11-12	5-11-12	6-1-8

Plate Offsets (X,Y)-- [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	0.26	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.46	8-9	>622	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 98 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-1-0 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-4-6 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-224(LC 10)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-948/561, 1-2=-2433/1304, 2-3=-2433/1304, 3-5=-2459/1314, 5-6=-2459/1314, 6-7=-948/562
BOT CHORD 11-12=-453/405, 9-11=-1784/3180, 8-9=-1784/3180
WEBS 1-11=-1353/2448, 2-11=-397/336, 3-11=-792/544, 3-8=-767/526, 5-8=-403/343, 6-8=-1365/2479

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 12 and 75 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T19	Flat	2	1	I50479080 Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

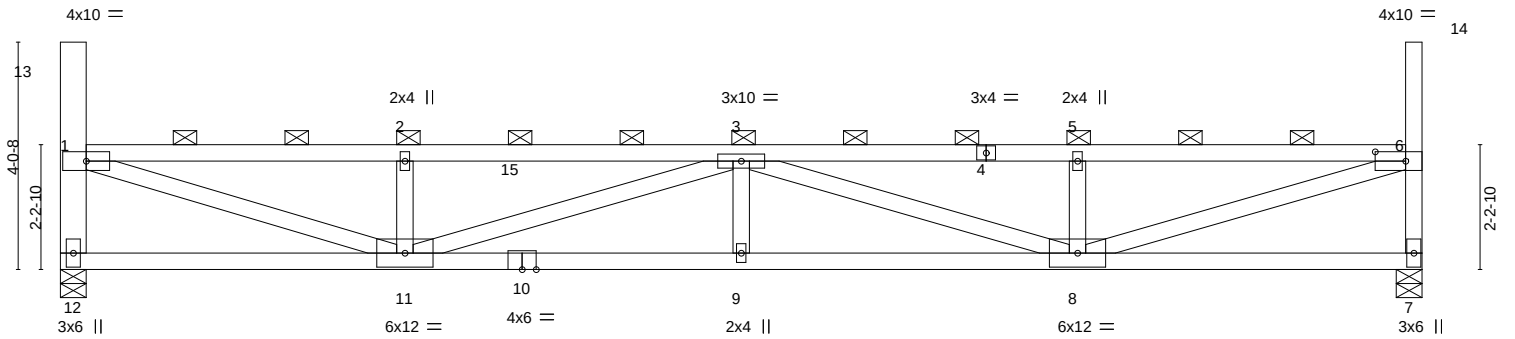
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T20	Flat	2	1	I50479081
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:47 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-MMzHxOB?sfRgyGHOVoJzEdnyNz0Vy7RG6crtgczgdfg

6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Scale = 1:41.0



6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Plate Offsets (X,Y)-- [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	0.25	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.44	8-9	>648	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 98 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-1-10 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-4-14 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=222(LC 11)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-948/561, 1-2=-2382/1276, 2-3=-2382/1276, 3-5=-2407/1286, 5-6=-2407/1286, 6-7=-949/562
BOT CHORD 11-12=-444/397, 9-11=-1749/3112, 8-9=-1749/3112
WEBS 1-11=-1327/2403, 2-11=-397/337, 3-11=-777/532, 3-8=-751/514, 5-8=-403/343, 6-8=-1338/2433

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 12 and 75 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T20	Flat	2	1	I50479081 Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

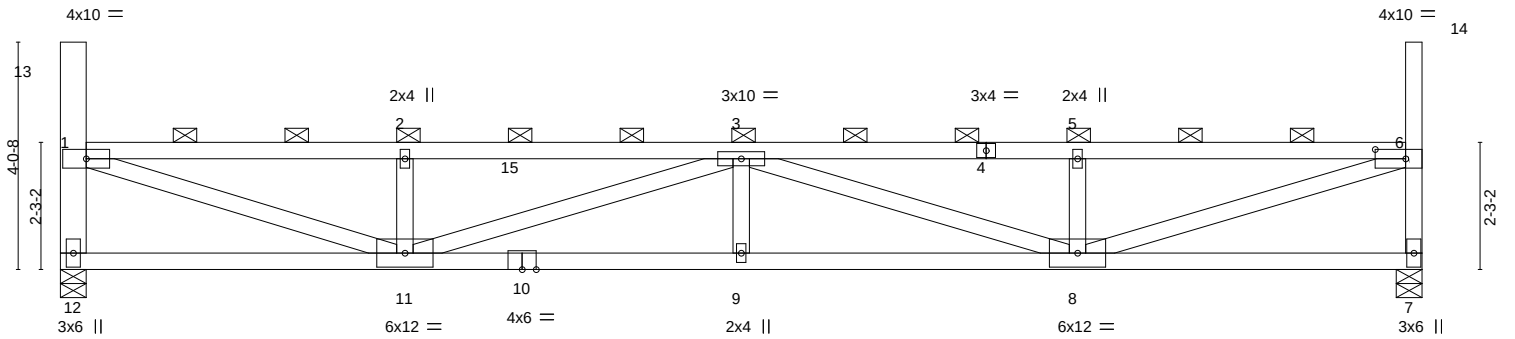
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T21	Flat	2	1	I50479082
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:48 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-qYXf8kCddzZWaQsa3VqCnqK7LNM1hbvQLGaQD2zgdff

6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Scale = 1:41.0



6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Plate Offsets (X,Y)-- [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	0.24	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.42	8-9	>675	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 98 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-2-4 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-5-7 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-220(LC 12)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-949/561, 1-2=-2333/1250, 2-3=-2333/1250, 3-5=-2358/1260, 5-6=-2358/1260, 6-7=-949/562
BOT CHORD 11-12=-435/389, 9-11=-1715/3047, 8-9=-1715/3047
WEBS 1-11=-1302/2360, 2-11=-398/337, 3-11=-761/521, 3-8=-737/504, 5-8=-404/343, 6-8=-1313/2389

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 12 and 75 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T21	Flat	2	1	I50479082 Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

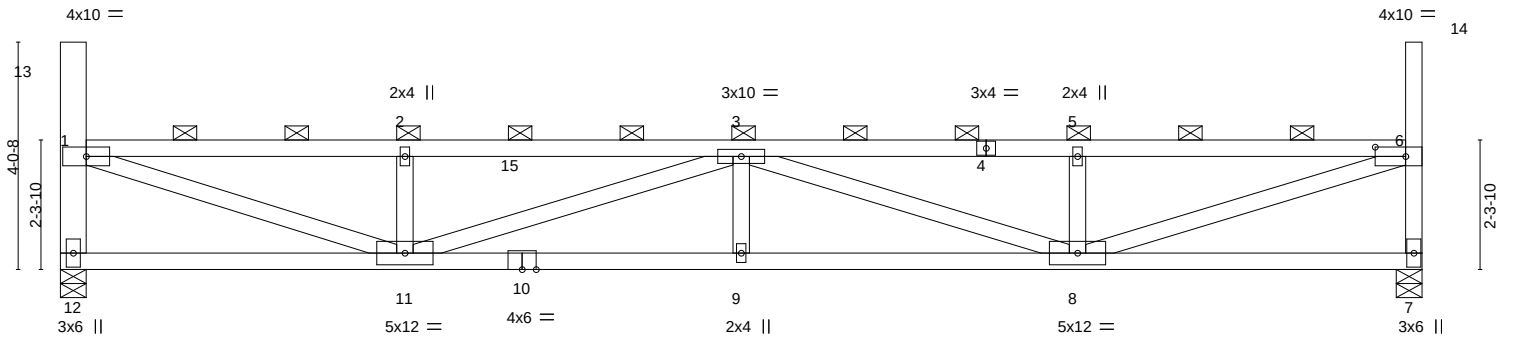
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T22	Flat	2	1	I50479083
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:50 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-mxeQZQEt8apEpj0zAwsgsFPT2A3n9Vcioa3XHxzgdfd

6-1-8	12-1-4	18-1-0	24-2-8
6-1-8	5-11-12	5-11-12	6-1-8

Scale = 1:41.0



6-1-8	12-1-4	18-1-0	24-2-8
6-1-8	5-11-12	5-11-12	6-1-8

Plate Offsets (X,Y)-- [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	0.23	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.41	8-9	>701	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 98 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-2-12 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-6-0 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-217(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-949/560, 1-2=-2286/1225, 2-3=-2286/1225, 3-5=-2310/1234, 5-6=-2310/1234, 6-7=-949/562
BOT CHORD 11-12=-426/382, 9-11=-1682/2985, 8-9=-1682/2985
WEBS 1-11=-1278/2318, 2-11=-398/337, 3-11=-747/510, 3-8=-723/493, 5-8=-404/343, 6-8=-1289/2347

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 12 and 74 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T22	Flat	2	1	I50479083 Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

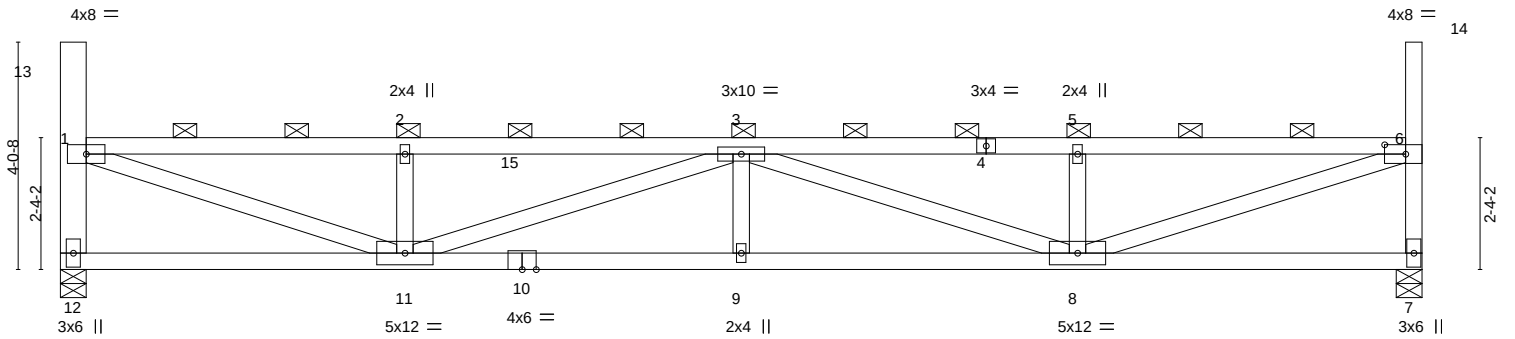
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T23	Flat	2	1	I50479084
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:51 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-E7ConmFVvux5Rtb9keOvOTye_aPHuy2s1Ep4qNzgdfc

6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Scale = 1:41.0



6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.22	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.39	8-9	>728	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 98 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-3-5 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-6-9 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=215(LC 11)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-949/560, 1-2=-2241/1201, 2-3=-2241/1201, 3-5=-2265/1210, 5-6=-2265/1210, 6-7=-950/561
BOT CHORD 11-12=-418/375, 9-11=-1651/2925, 8-9=-1651/2925
WEBS 1-11=-1255/2278, 2-11=-399/337, 3-11=-733/500, 3-8=-709/483, 5-8=-405/343, 6-8=-1266/2307

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 12 and 74 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T23	Flat	2	1	I50479084 Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T24	Flat	2	1	I50479085
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:52 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-iKmA_6F8gB4y31ALILv8xgVpw_lndOU?GuYeMpzgdfb

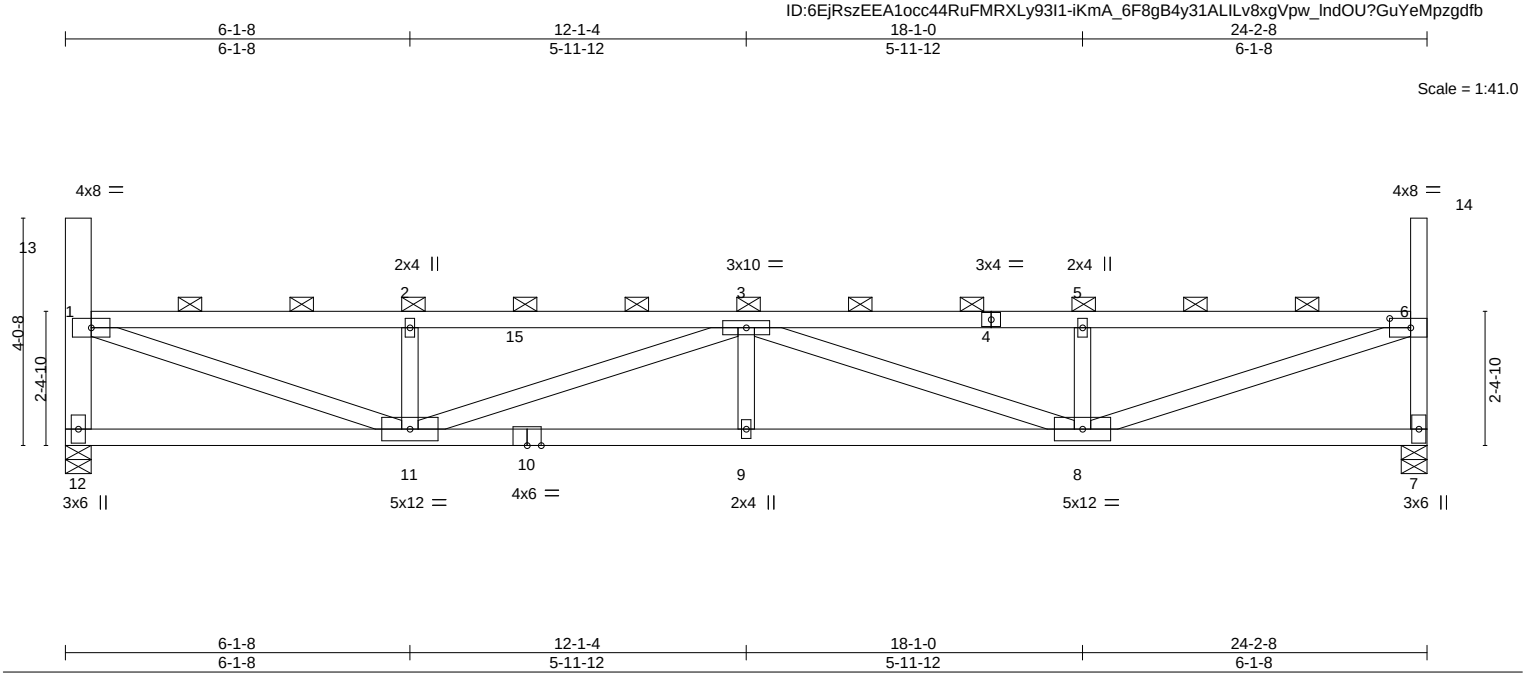


Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.21	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.38	8-9	>756	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 99 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-3-14 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-1 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-213(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-950/560, 1-2=-2198/1177, 2-3=-2198/1177, 3-5=-2221/1186, 5-6=-2221/1186, 6-7=-950/561
BOT CHORD 11-12=-410/368, 9-11=-1621/2868, 8-9=-1621/2868
WEBS 1-11=-1233/2240, 2-11=-399/337, 3-11=-720/490, 3-8=-696/474, 5-8=-405/343, 6-8=-1244/2268

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 12 and 74 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T24	Flat	2	1	I50479085 Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T25	Flat	2	1	I50479086
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:53 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-BWKYBSGmRVCpgBlYr2QNTu1?rO5GMru9UYIBuGzgdfa

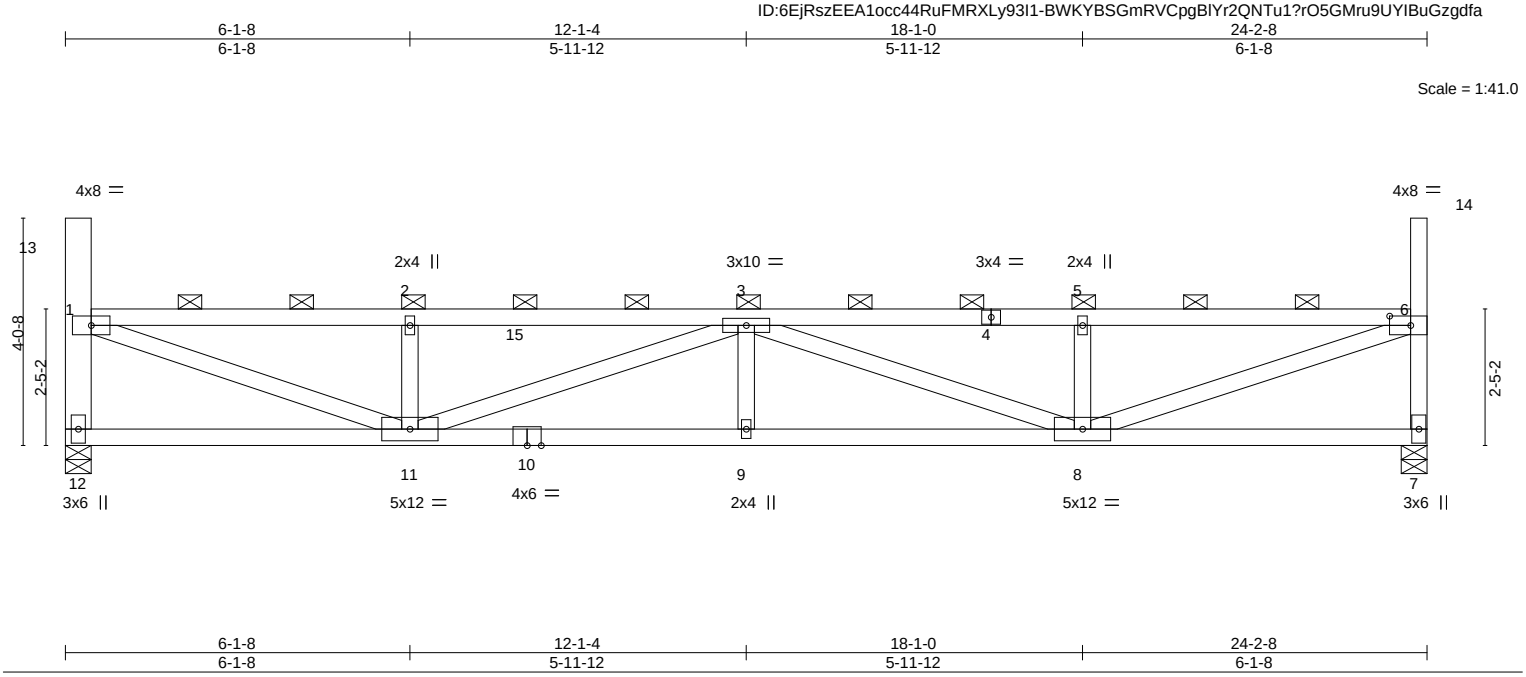


Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.21	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.36	8-9	>784	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 99 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-4-7 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-9 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-211(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-950/560, 1-2=-2156/1155, 2-3=-2156/1155, 3-5=-2179/1164, 5-6=-2179/1164, 6-7=-950/561
BOT CHORD 11-12=-402/361, 9-11=-1592/2813, 8-9=-1592/2813
WEBS 1-11=-1212/2203, 2-11=-399/337, 3-11=-707/480, 3-8=-684/465, 5-8=-406/344, 6-8=-1222/2230

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 12 and 74 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T25	Flat	2	1	I50479086 Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T26	Flat	2	1	I50479087
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:54 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-fiuxPnHOCpKgILJkPmxc05aAloRl5IJIjC1kQizgdfZ

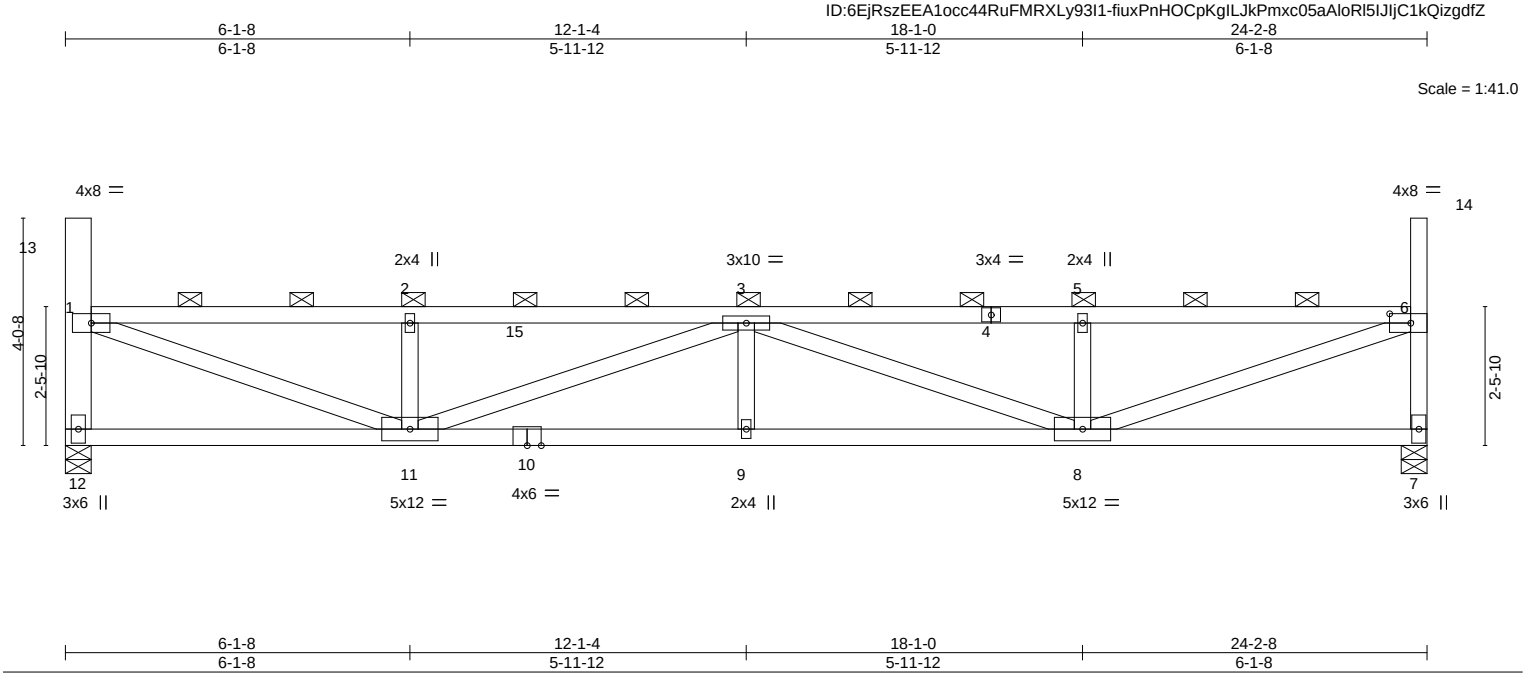


Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.20	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.35	8-9	>812	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 99 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-4-15 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-2 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-209(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-950/560, 1-2=-2115/1133, 2-3=-2115/1133, 3-5=-2138/1142, 5-6=-2138/1142, 6-7=-951/561
BOT CHORD 11-12=-394/354, 9-11=-1563/2760, 8-9=-1563/2760
WEBS 1-11=-1191/2167, 2-11=-400/337, 3-11=-695/471, 3-8=-672/456, 5-8=-406/344, 6-8=-1202/2194

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 12 and 74 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T26	Flat	2	1	I50479087 Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

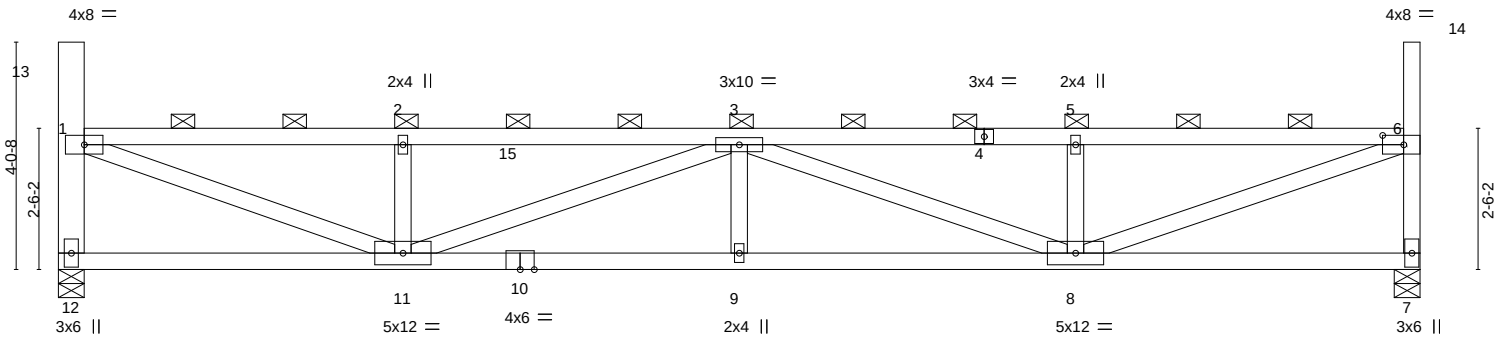
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T27	Flat	2	1	I50479088
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:55 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-7vSJc7I0z6SXwVuwzTSrZJ6LfBnCqmjRysnIz8zgdfY

6-1-8	12-1-4	18-1-0	24-2-8
6-1-8	5-11-12	5-11-12	6-1-8

Scale = 1:41.0



6-1-8	12-1-4	18-1-0	24-2-8
6-1-8	5-11-12	5-11-12	6-1-8

Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	0.19	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.34	8-9	>840	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 99 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-5-7 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-10 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-206(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-951/559, 1-2=-2077/1112, 2-3=-2077/1112, 3-5=-2099/1121, 5-6=-2099/1121, 6-7=-951/560
BOT CHORD 11-12=-386/347, 9-11=-1536/2708, 8-9=-1536/2708
WEBS 1-11=-1172/2133, 2-11=-400/338, 3-11=-683/462, 3-8=-661/447, 5-8=-407/344, 6-8=-1182/2160

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 12 and 73 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T27	Flat	2	1	I50479088 Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

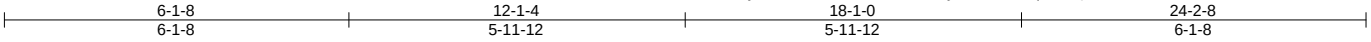
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

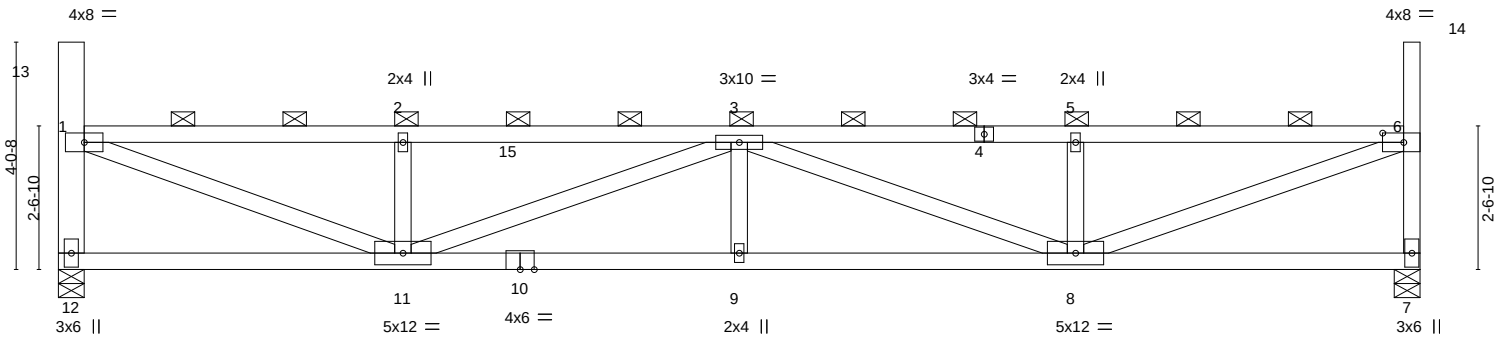
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T28	Flat	2	1	I50479089
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:56 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-b50hqTIekQaOXeT7XBz45WfWXb7fZD7bBWWrVbzgdfX



Scale = 1:41.0



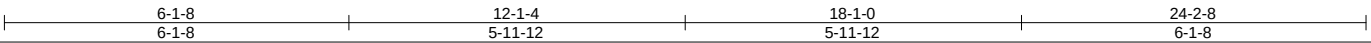


Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.19	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.33	8-9	>869	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 99 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-5-15 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-2 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=204(LC 11)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-951/559, 1-2=-2039/1092, 2-3=-2039/1092, 3-5=-2061/1101, 5-6=-2061/1101, 6-7=-951/560
BOT CHORD 11-12=-379/341, 9-11=-1510/2659, 8-9=-1510/2659
WEBS 1-11=-1153/2100, 2-11=-400/338, 3-11=-672/454, 3-8=-650/439, 5-8=-407/344, 6-8=-1163/2126

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 12 and 73 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T28	Flat	2	1	I50479089 Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T29	Flat	2	1	I50479090
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:57 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-3HZ31pJGVkiF9o2J4uVJekChQ?T5IgWkPAGP11zgdfW

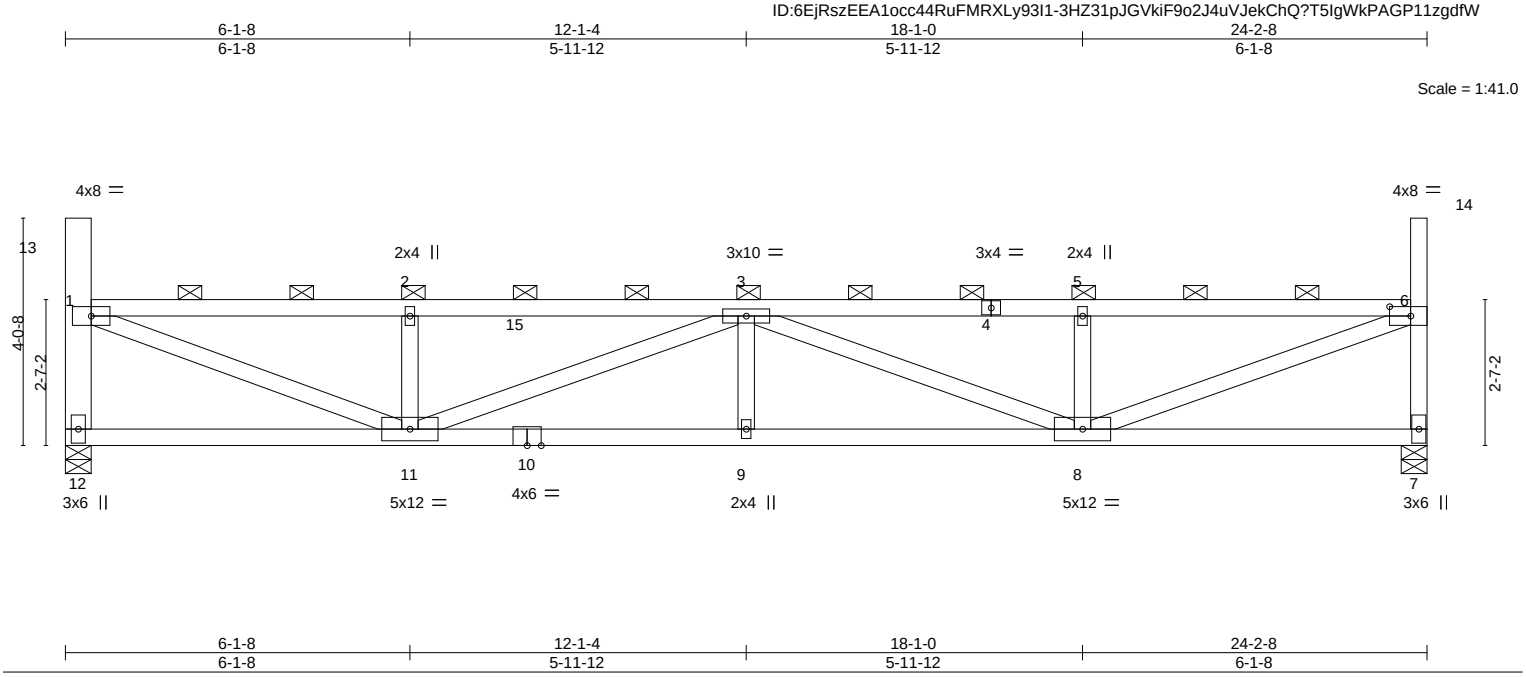


Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.18	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.32	8-9	>898	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 100 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-6-8 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-11 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-202(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-951/559, 1-2=-2003/1073, 2-3=-2003/1073, 3-5=-2024/1082, 5-6=-2024/1082, 6-7=-951/560
BOT CHORD 11-12=-372/334, 9-11=-1484/2612, 8-9=-1484/2612
WEBS 1-11=-1134/2069, 2-11=-401/338, 3-11=-661/445, 3-8=-639/431, 5-8=-407/344, 6-8=-1145/2094

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 12 and 73 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T29	Flat	2	1	I50479090 Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

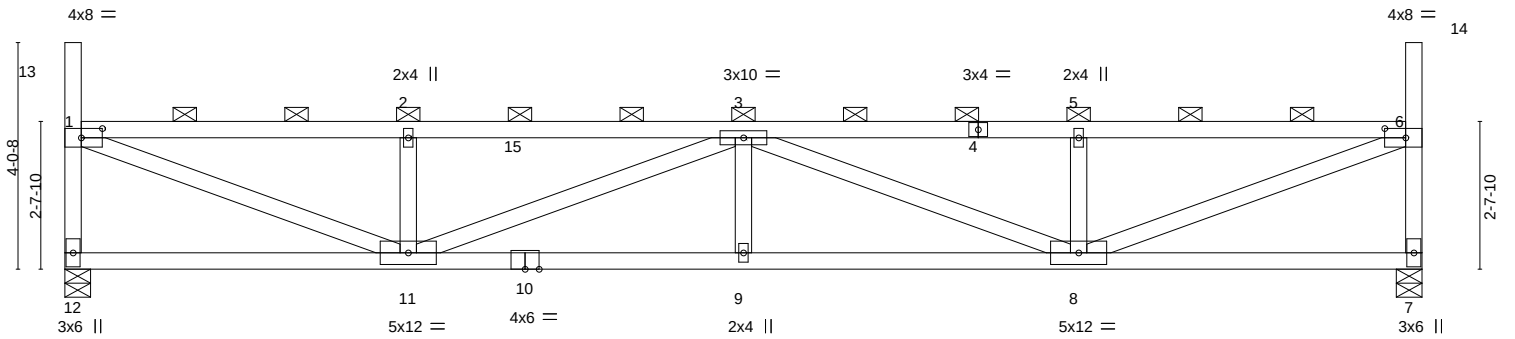
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T30	Flat	2	1	I50479091
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:58 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-XT7RF9KuG1q6nydVec0YAxksHPqU17sueq?yZTzgdfV

6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Scale = 1:41.1



6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.18	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.31	9-11	>917	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 98 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-6-13 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-15 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-200(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-955/560, 1-2=-1998/1069, 2-3=-1998/1069, 3-5=-1998/1067, 5-6=-1998/1067, 6-7=-955/561
BOT CHORD 11-12=-361/326, 9-11=-1467/2582, 8-9=-1467/2582
WEBS 1-11=-1128/2073, 2-11=-408/345, 3-11=-637/432, 3-8=-637/427, 5-8=-408/344, 6-8=-1131/2073

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 12 and 73 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T30	Flat	2	1	I50479091 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

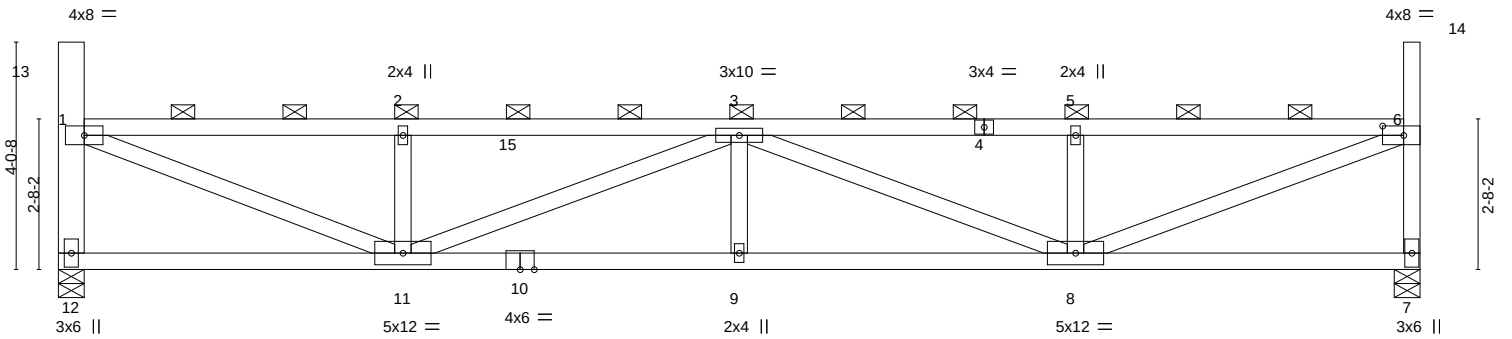
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T31	Flat	2	1	I50479092
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:59 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-?ghqSVLX1LyzO6CiCJXnj9H1ApAzmaI1tUlV6vzgdfU

6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Scale = 1:41.0



6-1-8 | 12-1-4 | 18-1-0 | 24-2-8
6-1-8 | 5-11-12 | 5-11-12 | 6-1-8

Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	0.17	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.30	8-9	>958	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 100 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
12-13: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-7-7 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-10 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-198(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-952/558, 1-2=-1934/1036, 2-3=-1934/1036, 3-5=-1955/1045, 5-6=-1955/1045, 6-7=-952/559
BOT CHORD 11-12=-357/322, 9-11=-1436/2521, 8-9=-1436/2521
WEBS 1-11=-1100/2009, 2-11=-401/338, 3-11=-641/430, 3-8=-620/416, 5-8=-408/344, 6-8=-1110/2033

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 12 and 73 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T31	Flat	2	1	I50479092 Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	T32	FLAT GIRDER	2	2	I50479093
					Job Reference (optional)

Mill Creek Truss, Halstead, KS 67056, Mitek

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 04:08:33 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-OKi2uqihoyralUdSfeevDnW27xfbhaJ57iSYKLzfPFS

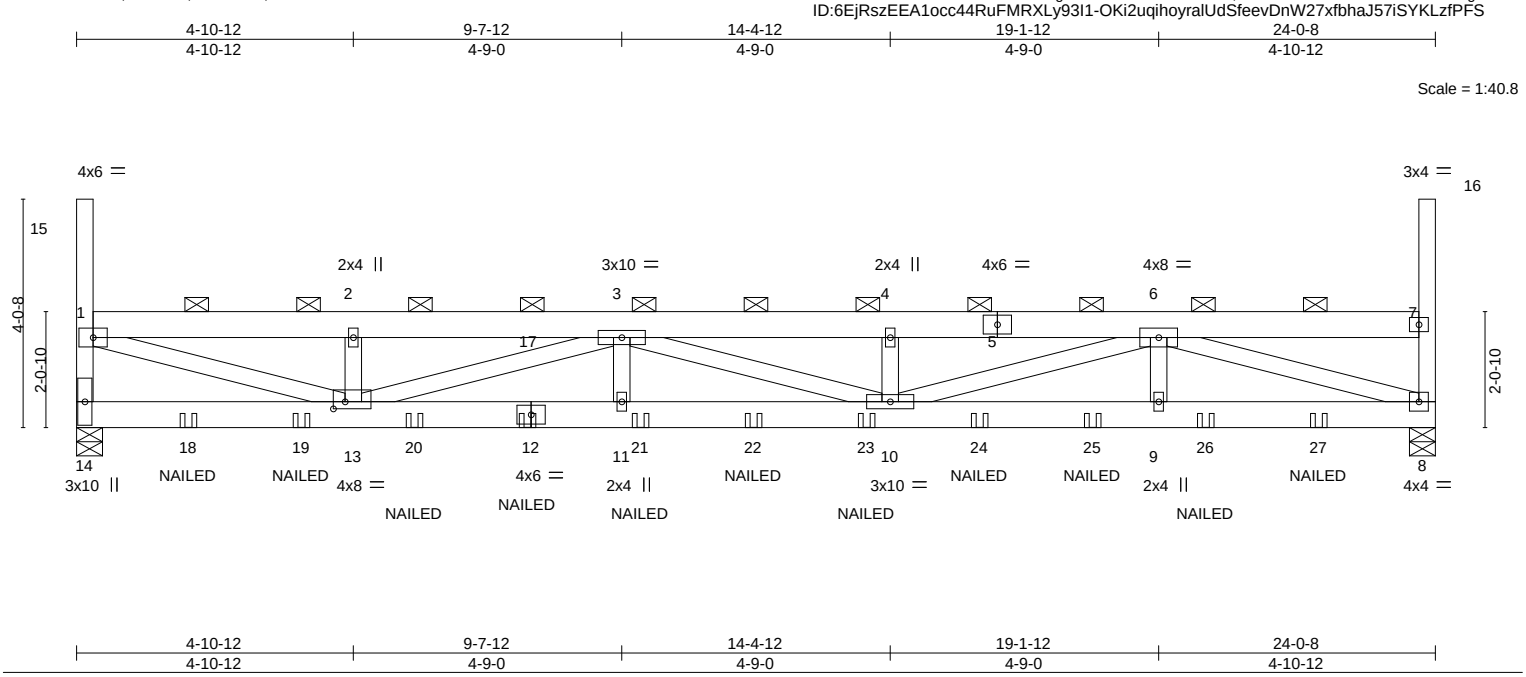


Plate Offsets (X,Y)-- [13:0-2-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.27	10-11	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.26	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	-0.04	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 249 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SPF 1650F 1.5E
BOT CHORD	2x6 SPF 1650F 1.5E
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-11-5 oc bracing.

REACTIONS. (lb/size) 14=1344/0-5-8, 8=1342/0-5-8
Max Horz 14=232(LC 11)
Max Uplift 14=-1000(LC 10), 8=-876(LC 11)
Max Grav 14=1371(LC 29), 8=1371(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-14=-1242/889, 1-2=-3261/2601, 2-17=-3261/2601, 3-17=-3261/2601, 3-4=-4840/3777, 4-5=-4840/3777, 5-6=-4840/3777, 6-7=-224/266

BOT CHORD 14-18=-482/403, 18-19=-482/403, 13-19=-482/403, 13-20=-3818/4841, 12-20=-3818/4841, 11-12=-3818/4841, 11-21=-3818/4841, 21-22=-3818/4841, 22-23=-3818/4841, 10-23=-3818/4841, 10-24=-2398/3266, 24-25=-2398/3266, 9-25=-2398/3266, 9-26=-2398/3266, 26-27=-2398/3266, 8-27=-2398/3266

WEBS 1-13=-2516/3266, 2-13=-286/280, 3-13=-1666/1358, 3-11=-340/248, 4-10=-279/263, 6-10=-1465/1659, 6-9=-270/255, 6-8=-3274/2418

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1000 lb uplift at joint 14 and 876 lb uplift at joint 8.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	T32	FLAT GIRDER	2	2	I50479093 Job Reference (optional)

NOTES-

11) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 5-17=-58, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-66(B) 18=-66(B) 19=-66(B) 20=-66(B) 21=-66(B) 22=-66(B) 23=-66(B) 24=-66(B) 25=-66(B) 26=-66(B) 27=-66(B)
   Trapezoidal Loads (plf)
   Vert: 1=-73-to-17=-58, 5=-58-to-7=-73
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 5-17=-48, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-55(B) 18=-55(B) 19=-55(B) 20=-55(B) 21=-55(B) 22=-55(B) 23=-55(B) 24=-55(B) 25=-55(B) 26=-55(B) 27=-58(B)
   Trapezoidal Loads (plf)
   Vert: 1=-60-to-17=-48, 5=-49-to-7=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 5-17=-36, 8-14=-20
   Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
   Concentrated Loads (lb)
   Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=-93(B)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 5-17=-36, 8-14=-20
   Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
   Concentrated Loads (lb)
   Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=-61(B)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 5-17=-36, 8-14=-20
   Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
   Concentrated Loads (lb)
   Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=-82(B)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 5-17=-36, 8-14=-20
   Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
   Concentrated Loads (lb)
   Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=-82(B)
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 5-17=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-66(B) 18=-66(B) 19=-66(B) 20=-66(B) 21=-66(B) 22=-66(B) 23=-66(B) 24=-66(B) 25=-66(B) 26=-66(B) 27=-68(B)
   Trapezoidal Loads (plf)
   Vert: 1=-75-to-17=-60, 5=-60-to-7=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T33	Flat	2	1	I50479094
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:02 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-QFNy4XNPKGKXFZxGtR4ULnvV7079zvhTZSzAiEzgdfR

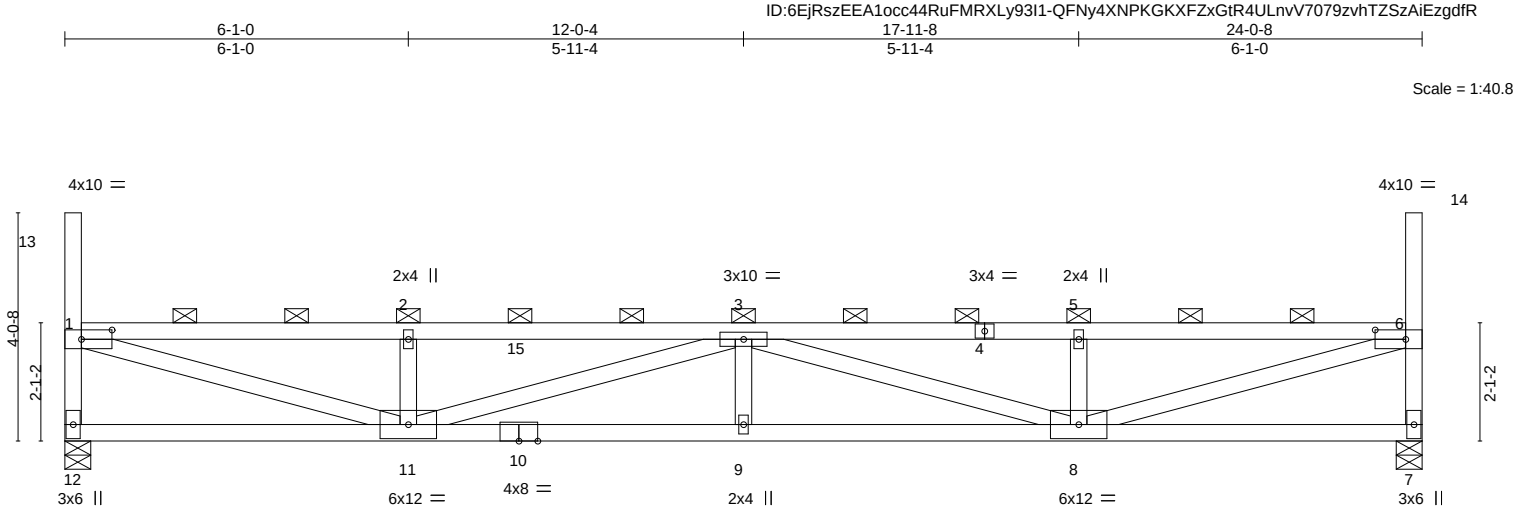


Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	0.28	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.49	9	>577	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 95 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-0-3 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-3-3 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-228(LC 12)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-944/563, 1-2=-2546/1369, 2-3=-2546/1369, 3-5=-2546/1367, 5-6=-2546/1367, 6-7=-944/564
BOT CHORD 11-12=-467/418, 9-11=-1853/3300, 8-9=-1853/3300
WEBS 1-11=-1410/2556, 2-11=-400/343, 3-11=-800/560, 3-8=-800/551, 5-8=-400/341, 6-8=-1415/2556

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 12 and 75 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T33	Flat	2	1	I50479094 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

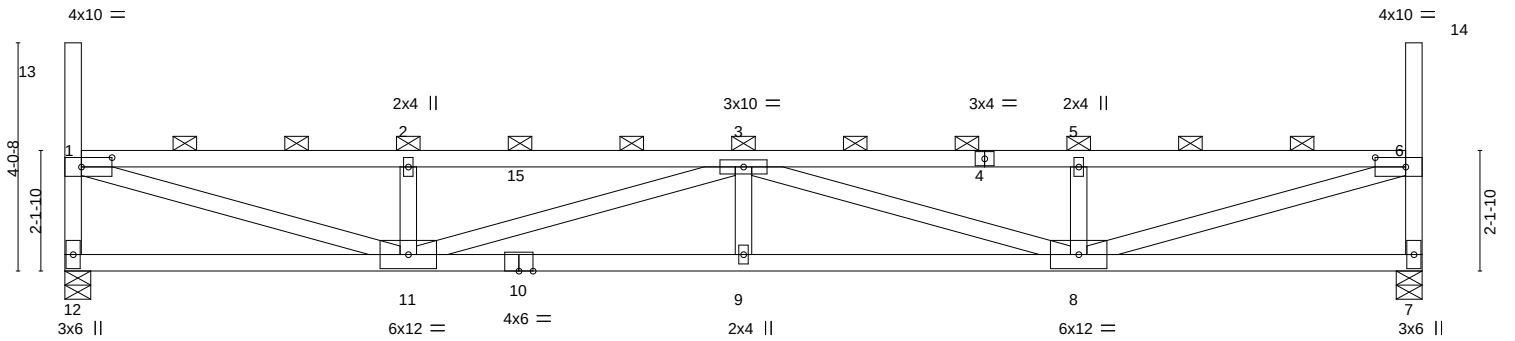
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T34	Flat	2	1	I50479095
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:03 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-uRxKIsO14aSOtjVTR9bjt?Sg8QUkiN2do5jjFhzgdfQ

6-1-0	12-0-4	17-11-8	24-0-8
6-1-0	5-11-4	5-11-4	6-1-0

Scale = 1:40.8



6-1-0	12-0-4	17-11-8	24-0-8
6-1-0	5-11-4	5-11-4	6-1-0

Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	0.27	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.47	9-11	>602	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 95 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-0-14 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-5-1 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-226(LC 10)
Max Uplift 12=-16(LC 10), 7=-16(LC 11)
Max Grav 12=1009(LC 2), 7=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-945/504, 1-2=-2490/1249, 2-3=-2490/1249, 3-5=-2490/1247, 5-6=-2490/1247, 6-7=-945/505
BOT CHORD 11-12=-447/421, 9-11=-1736/3227, 8-9=-1736/3227
WEBS 1-11=-1299/2506, 2-11=-400/314, 3-11=-771/558, 3-8=-771/550, 5-8=-400/312, 6-8=-1304/2506

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 12 and 16 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T34	Flat	2	1	I50479095 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=87, 6-7=34, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39

8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T34	Flat	2	1	I50479095 Job Reference (optional)

LOAD CASE(S) Standard

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T34	Flat	2	1	I50479095 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-15=-28, 4=-29-to-6=-43

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-15=4, 4=4-to-6=-11

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

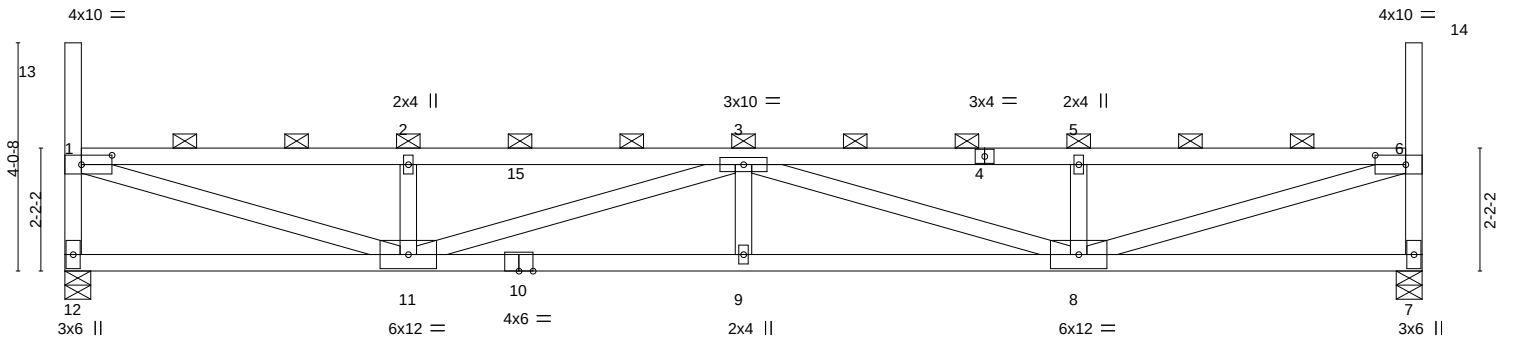
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T35	Flat	2	1	I50479096
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:04 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-MdViVCPfrtaFVt4f?s7yQC_s8qqHRpgm0lSGn7zgdfP

6-1-0 (6-1-0) | 12-0-4 (5-11-4) | 17-11-8 (5-11-4) | 24-0-8 (6-1-0)

Scale = 1:40.8



6-1-0 (6-1-0) | 12-0-4 (5-11-4) | 17-11-8 (5-11-4) | 24-0-8 (6-1-0)

Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	0.26	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.45	9-11	>628	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 95 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-1-8 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-4-5 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-224(LC 10)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-945/562, 1-2=-2437/1310, 2-3=-2437/1310, 3-5=-2437/1308, 5-6=-2437/1308, 6-7=-945/563
BOT CHORD 11-12=-448/402, 9-11=-1779/3157, 8-9=-1779/3157
WEBS 1-11=-1355/2459, 2-11=-401/344, 3-11=-766/535, 3-8=-766/527, 5-8=-401/342, 6-8=-1360/2459

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 12 and 75 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T35	Flat	2	1	I50479096 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T36	Flat	2	1	I50479097
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:06 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-I0cTwuQwNVqzkBE26H9QVd4CtdV3vkN3U3yNr?zgdfN

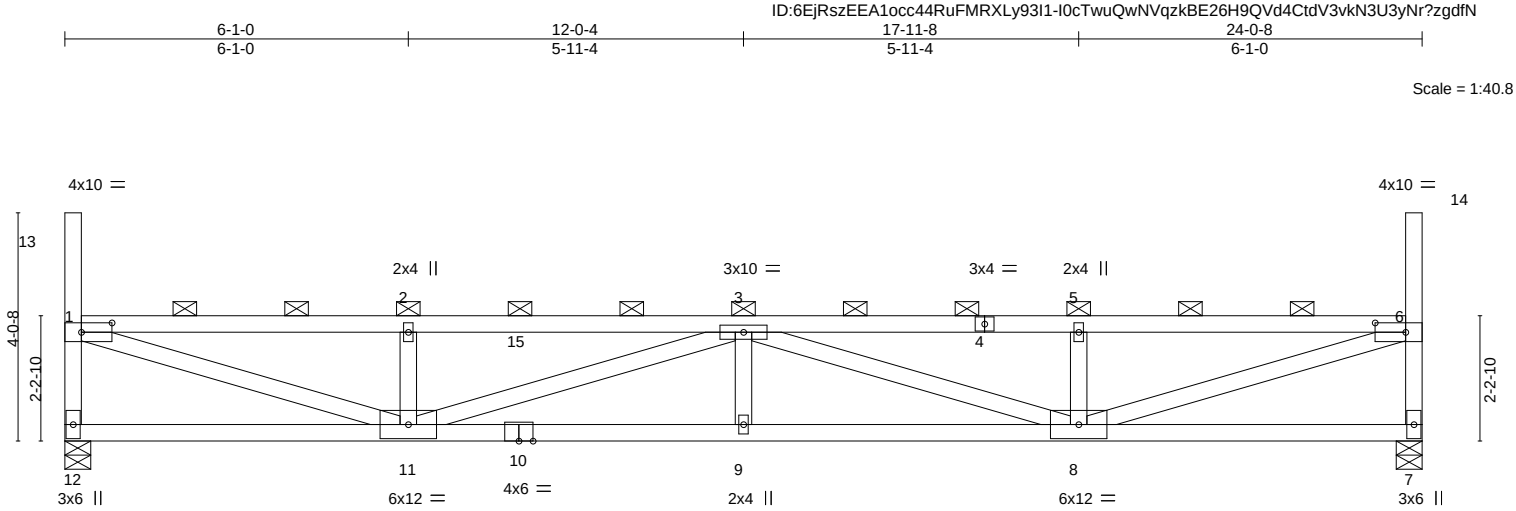


Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	0.25	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.44	9-11	>654	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 95 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-2-2 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-4-14 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=222(LC 11)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-946/562, 1-2=-2386/1283, 2-3=-2386/1283, 3-5=-2386/1281, 5-6=-2386/1281, 6-7=-946/563
BOT CHORD 11-12=-439/394, 9-11=-1744/3090, 8-9=-1744/3090
WEBS 1-11=-1329/2413, 2-11=-401/344, 3-11=-751/523, 3-8=-751/516, 5-8=-401/342, 6-8=-1334/2413

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 12 and 75 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T36	Flat	2	1	I50479097 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T37	Flat	2	1	I50479098
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:07 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-mCAr8ERY8oyqMLpEg?gf2rcNr1sbeBqDijhxOSzgdfM

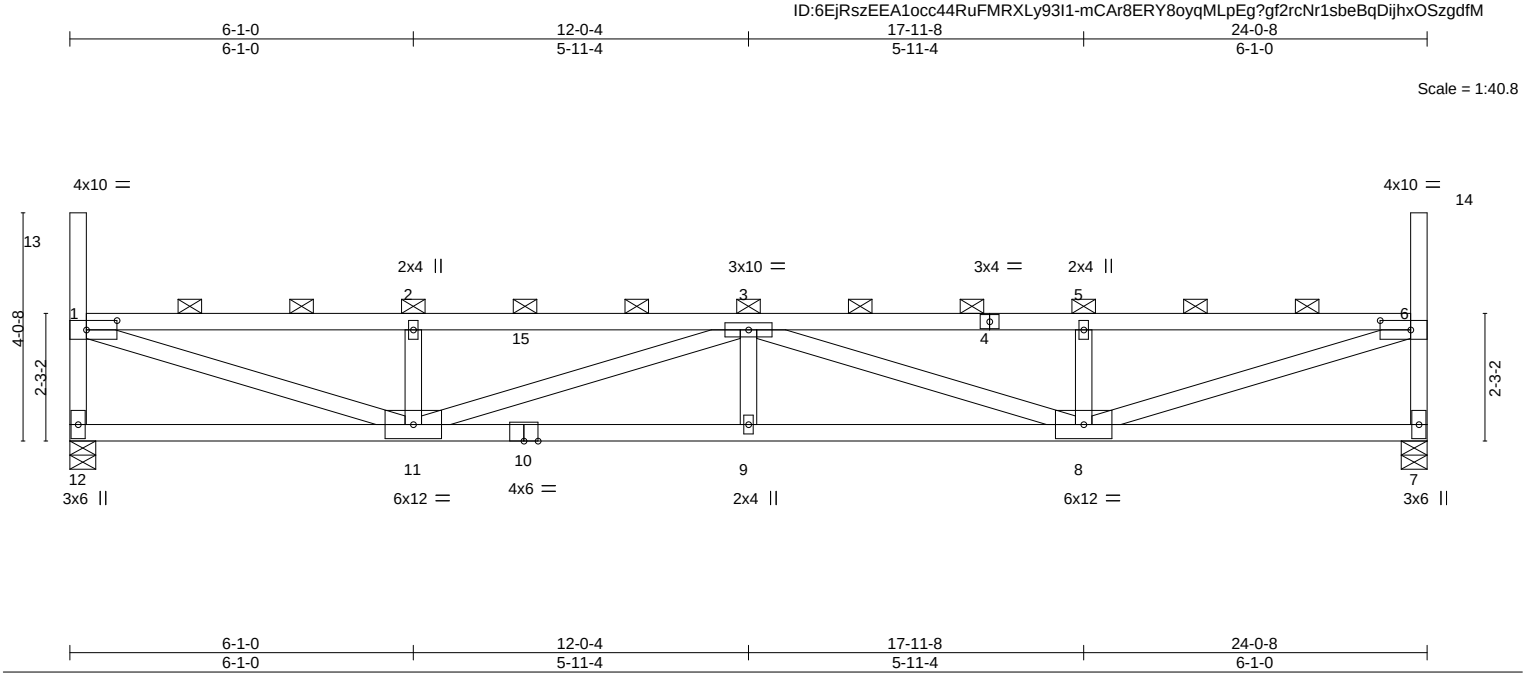


Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [6:0-6-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	0.24	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.42	9-11	>680	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 95 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-2-10 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-5-7 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=220(LC 11)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-946/562, 1-2=-2337/1256, 2-3=-2337/1256, 3-5=-2337/1255, 5-6=-2337/1255, 6-7=-946/563
BOT CHORD 11-12=-430/387, 9-11=-1710/3026, 8-9=-1710/3026
WEBS 1-11=-1304/2370, 2-11=-402/344, 3-11=-736/512, 3-8=-736/505, 5-8=-402/342, 6-8=-1309/2370

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 12 and 74 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T37	Flat	2	1	I50479098 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

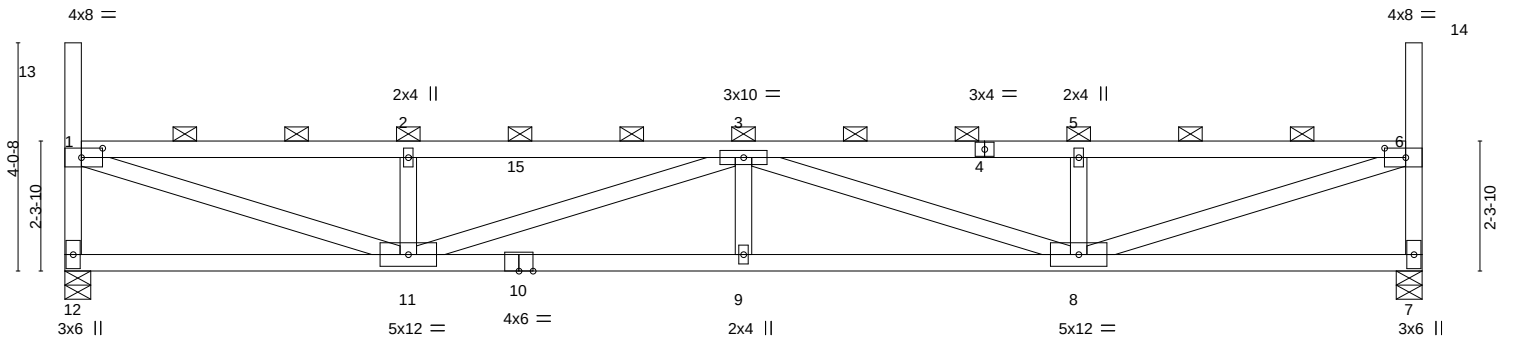
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T38	Flat	2	1	I50479099
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:08 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-EPkDLaSAv65hzUOQEiBua29YoRC6NeHMxNRUwuzgdfL

6-1-0	12-0-4	17-11-8	24-0-8
6-1-0	5-11-4	5-11-4	6-1-0

Scale = 1:40.8



6-1-0	12-0-4	17-11-8	24-0-8
6-1-0	5-11-4	5-11-4	6-1-0

Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.23	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.40	9-11	>707	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 96 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-3-4 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-6-0 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-217(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-947/562, 1-2=-2290/1231, 2-3=-2290/1231, 3-5=-2290/1229, 5-6=-2290/1229, 6-7=-947/562
BOT CHORD 11-12=-422/380, 9-11=-1678/2964, 8-9=-1678/2964
WEBS 1-11=-1281/2328, 2-11=-402/344, 3-11=-722/501, 3-8=-722/495, 5-8=-402/342, 6-8=-1285/2328

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 12 and 74 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T38	Flat	2	1	I50479099 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T39	Flat	2	1	I50479100
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:09 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-jbIbYwTogQDYbezdnPi77GikjrYc65jVA1A1SKzgdfK

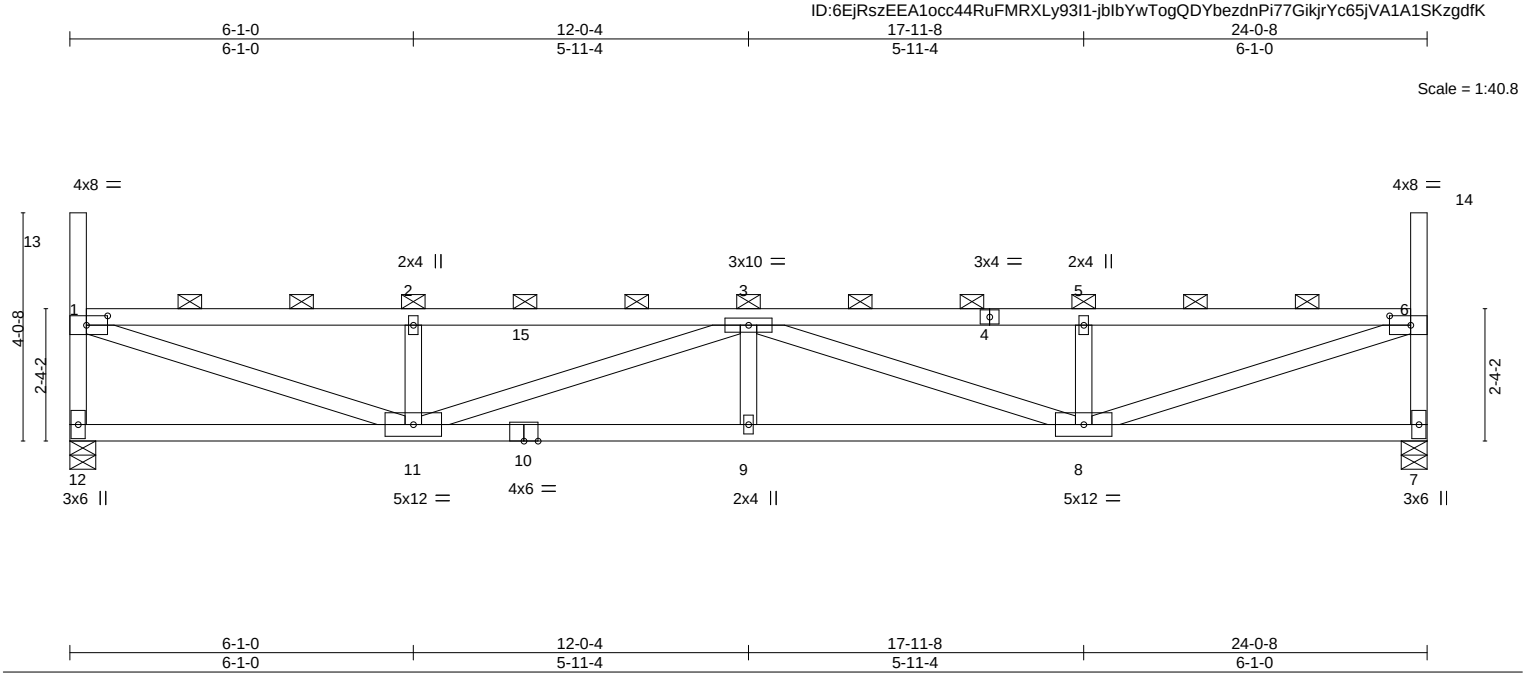


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.22	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.39	9-11	>734	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 96 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-3-13 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-6-9 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=215(LC 11)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-947/562, 1-2=-2245/1207, 2-3=-2245/1207, 3-5=-2244/1205, 5-6=-2244/1205, 6-7=-947/562
BOT CHORD 11-12=-413/373, 9-11=-1646/2905, 8-9=-1646/2905
WEBS 1-11=-1258/2288, 2-11=-403/344, 3-11=-709/491, 3-8=-709/485, 5-8=-403/342, 6-8=-1262/2288

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 12 and 74 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T39	Flat	2	1	I50479100 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

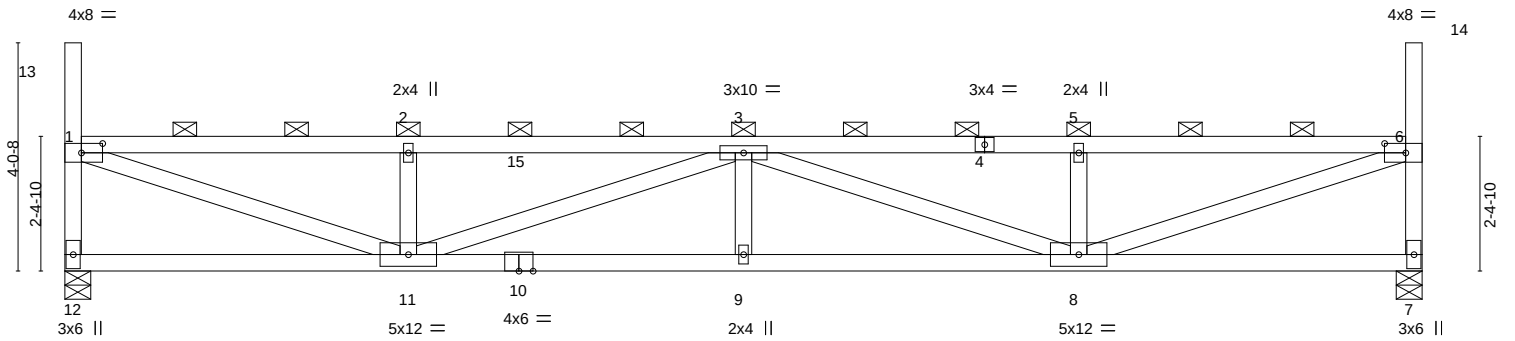
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T40	Flat	2	1	I50479101
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:10 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-Bns_mGTQRjLPDoYpL7DMgTEveEu6rX8fPhwb?nzgdfJ

6-1-0 | 12-0-4 | 17-11-8 | 24-0-8
6-1-0 | 5-11-4 | 5-11-4 | 6-1-0

Scale = 1:40.8



6-1-0 | 12-0-4 | 17-11-8 | 24-0-8
6-1-0 | 5-11-4 | 5-11-4 | 6-1-0

Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.21	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.37	9-11	>762	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 96 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-4-6 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-1 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-213(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-947/561, 1-2=-2201/1183, 2-3=-2201/1183, 3-5=-2201/1182, 5-6=-2201/1182, 6-7=-947/562
BOT CHORD 11-12=-405/366, 9-11=-1616/2848, 8-9=-1616/2848
WEBS 1-11=-1236/2250, 2-11=-403/344, 3-11=-696/481, 3-8=-696/475, 5-8=-403/343, 6-8=-1240/2249

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 12 and 74 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T40	Flat	2	1	I50479101 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

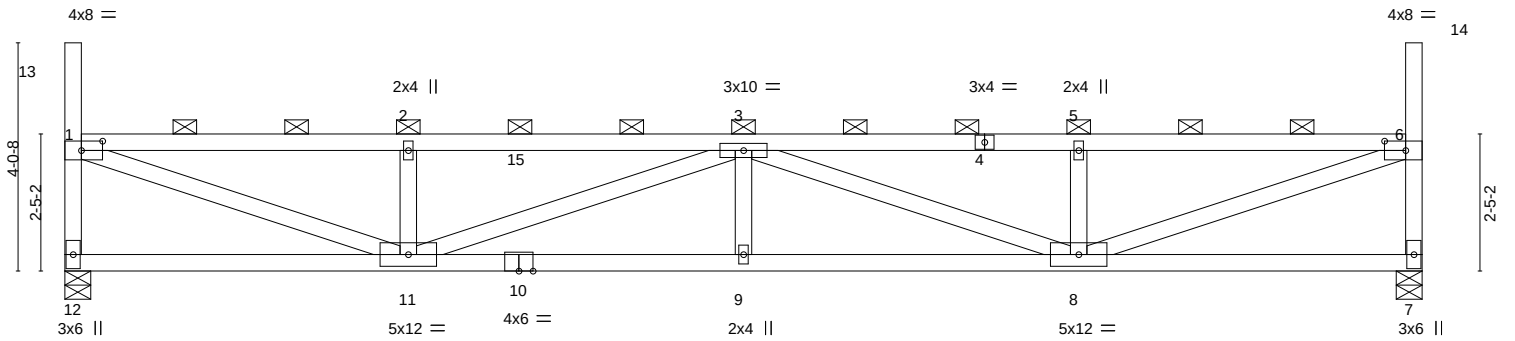
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T41	Flat	2	1	I50479102
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:11 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-f_QMzbU2C1TGqy7?vqlbChn4ZeFba?ZodLf8XDzgdfl

6-1-0 | 12-0-4 | 17-11-8 | 24-0-8
6-1-0 | 5-11-4 | 5-11-4 | 6-1-0

Scale = 1:40.8



6-1-0 | 12-0-4 | 17-11-8 | 24-0-8
6-1-0 | 5-11-4 | 5-11-4 | 6-1-0

Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	0.21	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.36	9-11	>790	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 96 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-4-14 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-9 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-211(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-947/561, 1-2=-2159/1161, 2-3=-2159/1161, 3-5=-2159/1159, 5-6=-2159/1159, 6-7=-947/562
BOT CHORD 11-12=-397/359, 9-11=-1587/2793, 8-9=-1587/2793
WEBS 1-11=-1215/2213, 2-11=-404/344, 3-11=-684/472, 3-8=-684/466, 5-8=-404/343, 6-8=-1218/2212

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 12 and 74 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T41	Flat	2	1	I50479102 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

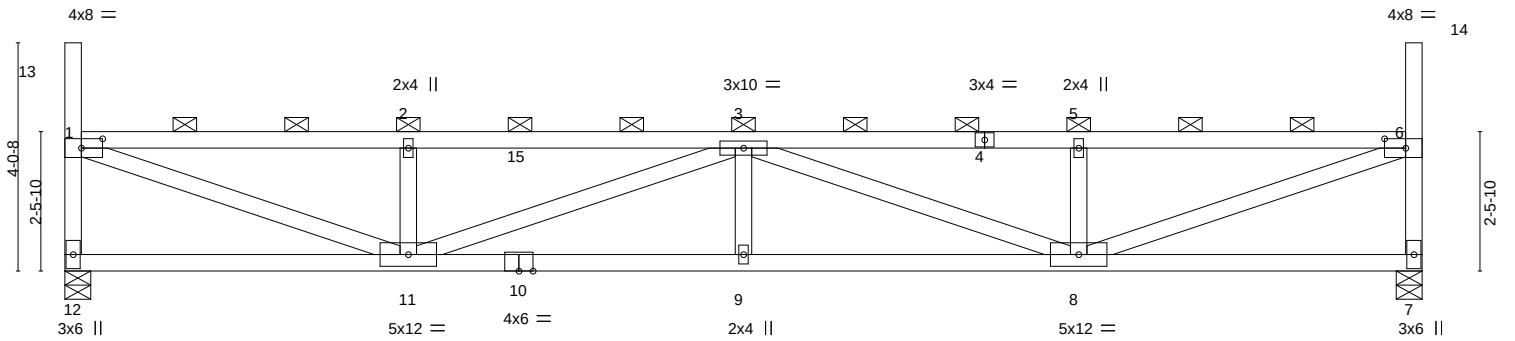
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T42	Flat	2	1	I50479103
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:12 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-7AzkBxVgzLb7S6iBTYGqluKFT2a3JSzys?Ph3fzgdfH

6-1-0 | 12-0-4 | 17-11-8 | 24-0-8
6-1-0 | 5-11-4 | 5-11-4 | 6-1-0

Scale = 1:40.8



6-1-0 | 12-0-4 | 17-11-8 | 24-0-8
6-1-0 | 5-11-4 | 5-11-4 | 6-1-0

Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0		Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.20	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0		Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.35	9-11	>818	180		
TCDL	10.0		Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0	*	Code	IBC2018/TPI2014	Matrix-MS							Weight: 96 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-5-6 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-2 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-209(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-948/561, 1-2=-2119/1139, 2-3=-2119/1139, 3-5=-2119/1138, 5-6=-2119/1138, 6-7=-948/561
BOT CHORD 11-12=-390/352, 9-11=-1559/2740, 8-9=-1559/2740
WEBS 1-11=-1194/2177, 2-11=-404/344, 3-11=-672/463, 3-8=-672/457, 5-8=-404/343, 6-8=-1198/2177

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 12 and 73 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T42	Flat	2	1	I50479103
					Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

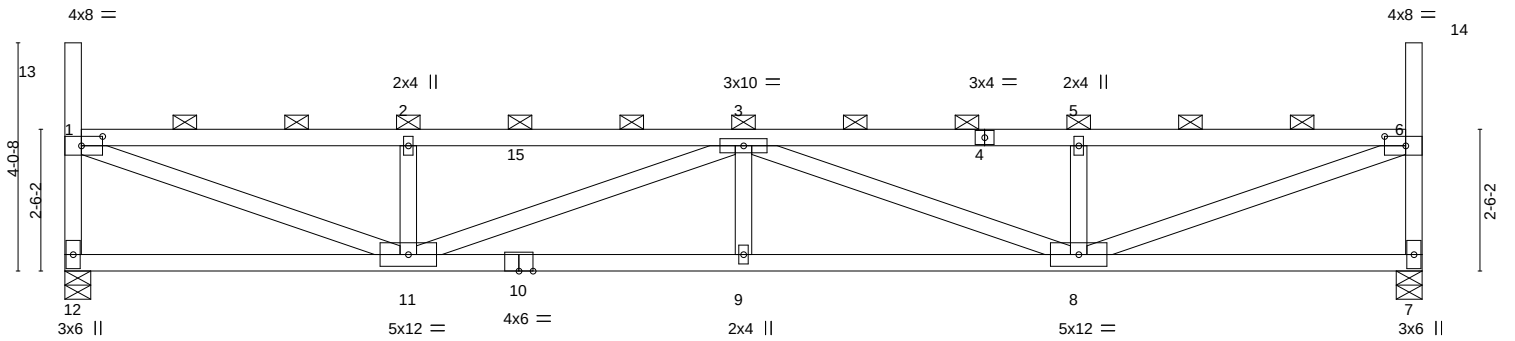
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T43	Flat	2	1	I50479104
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:13 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-bMX6OHWJkejz4GGO0Fn3H6sQMSwX2vN55f8Fb5zgdfG

6-1-0 | 12-0-4 | 17-11-8 | 24-0-8
6-1-0 | 5-11-4 | 5-11-4 | 6-1-0

Scale = 1:40.8



6-1-0 | 12-0-4 | 17-11-8 | 24-0-8
6-1-0 | 5-11-4 | 5-11-4 | 6-1-0

Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.19	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.34	9-11	>847	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-5-15 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-10 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-206(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-948/560, 1-2=-2080/1118, 2-3=-2080/1118, 3-5=-2080/1117, 5-6=-2080/1117, 6-7=-948/561
BOT CHORD 11-12=-382/346, 9-11=-1532/2689, 8-9=-1532/2689
WEBS 1-11=-1175/2143, 2-11=-405/344, 3-11=-661/454, 3-8=-661/448, 5-8=-405/343, 6-8=-1178/2143

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 12 and 73 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T43	Flat	2	1	I50479104 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T44	Flat	2	1	I50479105
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:15 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-XlftpzXZGGzhJZQm8gpYNXxm?FcDWp1OYzdMg_zgdfE

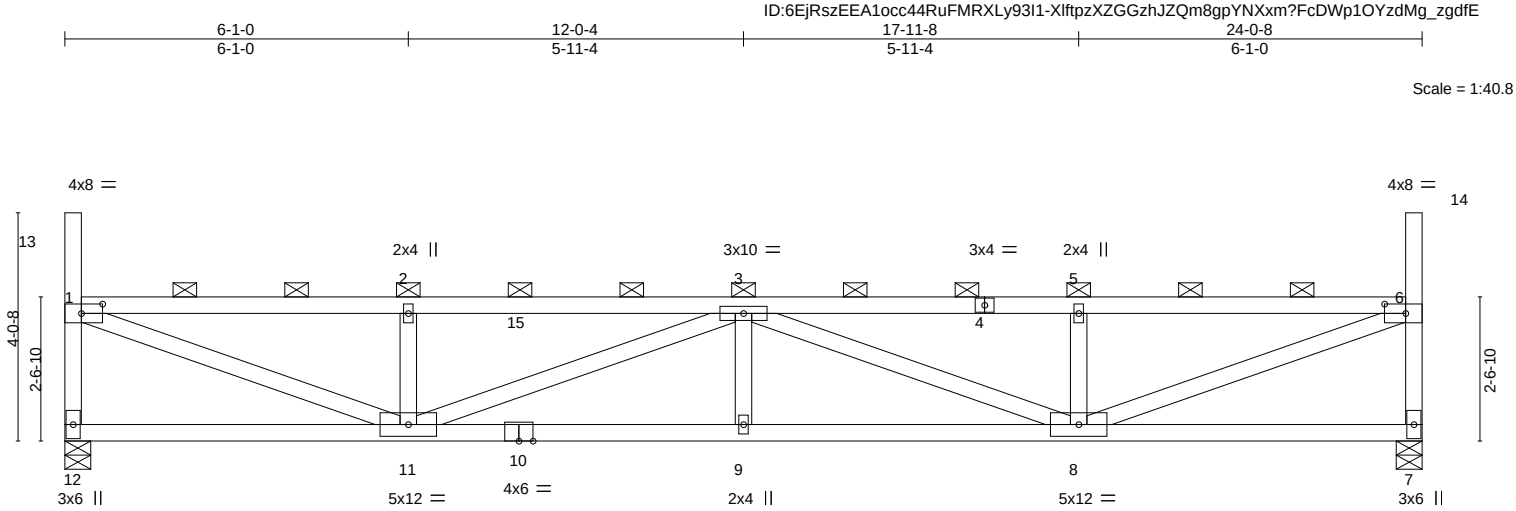


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.19	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.33	9-11	>876	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-6-6 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-2 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-204(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-948/560, 1-2=-2042/1098, 2-3=-2042/1098, 3-5=-2042/1097, 5-6=-2042/1097, 6-7=-948/561
BOT CHORD 11-12=-375/340, 9-11=-1506/2640, 8-9=-1506/2640
WEBS 1-11=-1156/2110, 2-11=-405/344, 3-11=-650/445, 3-8=-650/440, 5-8=-405/343, 6-8=-1159/2110

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 12 and 73 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T44	Flat	2	1	I50479105 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

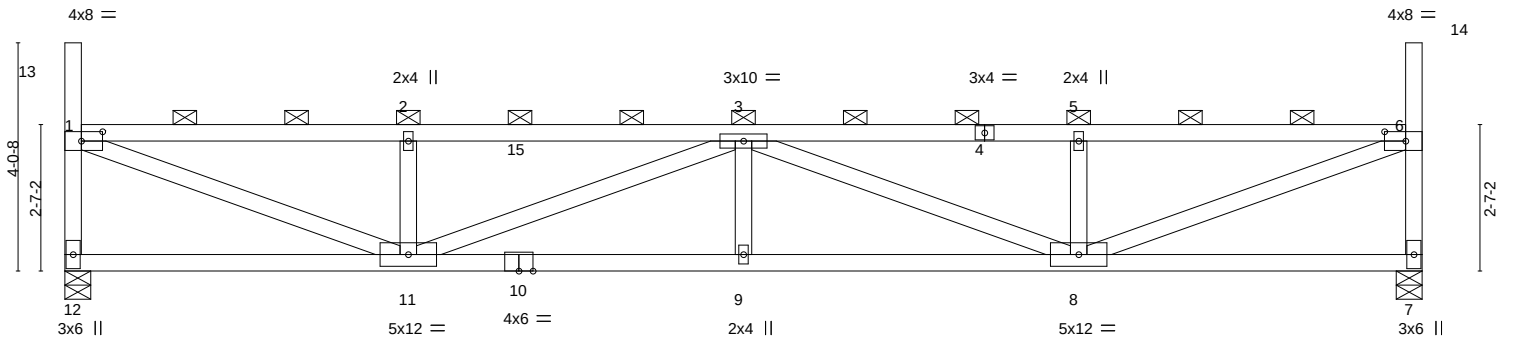
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T45	Flat	2	1	I50479106
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:16 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-?xDF0JYB1Z5Yxj?ziOKnvkUxsfzfFGQXndNvCQzgdfD

6-1-0 | 12-0-4 | 17-11-8 | 24-0-8
6-1-0 | 5-11-4 | 5-11-4 | 6-1-0

Scale = 1:40.8



6-1-0 | 12-0-4 | 17-11-8 | 24-0-8
6-1-0 | 5-11-4 | 5-11-4 | 6-1-0

Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	0.18	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.31	9-11	>905	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-6-14 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-11 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-202(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-949/560, 1-2=-2006/1078, 2-3=-2006/1078, 3-5=-2006/1077, 5-6=-2006/1077, 6-7=-949/560
BOT CHORD 11-12=-368/333, 9-11=-1480/2593, 8-9=-1480/2593
WEBS 1-11=-1138/2078, 2-11=-405/344, 3-11=-639/437, 3-8=-639/432, 5-8=-405/343, 6-8=-1141/2078

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 12 and 73 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T45	Flat	2	1	I50479106 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

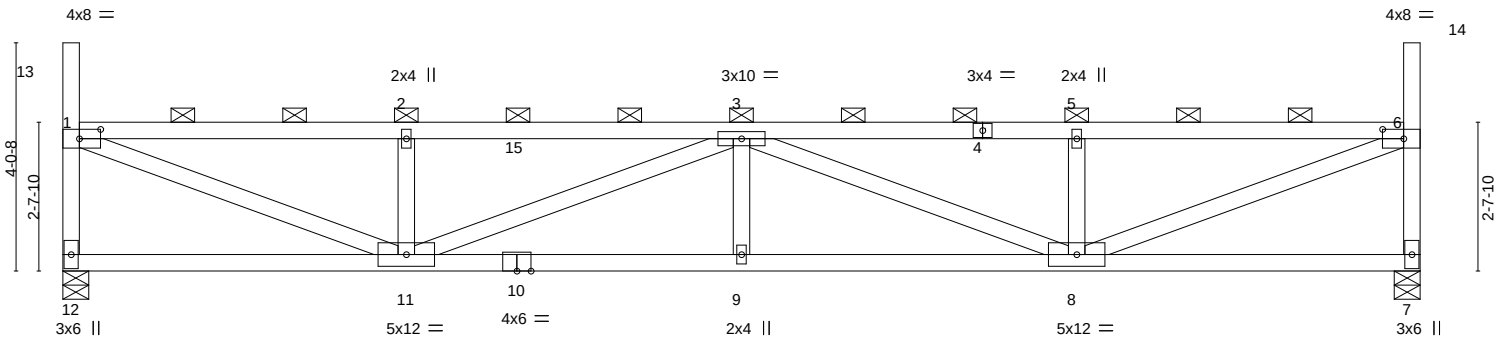
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T46	Flat	2	1	I50479107
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:17 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-U7ndEfZpntDPYta9F5r0Sy16k3J5_joh0H6SktzgdfC

6-1-0 (6-1-0) | 12-0-4 (5-11-4) | 17-11-8 (5-11-4) | 24-0-8 (6-1-0)

Scale = 1:40.8



6-1-0 (6-1-0) | 12-0-4 (5-11-4) | 17-11-8 (5-11-4) | 24-0-8 (6-1-0)

Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.17	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.30	9-11	>935	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-7-6 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-3 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=200(LC 11)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-949/559, 1-2=-1971/1060, 2-3=-1971/1060, 3-5=-1971/1058, 5-6=-1971/1058, 6-7=-949/560
BOT CHORD 11-12=-361/327, 9-11=-1456/2547, 8-9=-1456/2547
WEBS 1-11=-1120/2047, 2-11=-406/344, 3-11=-629/429, 3-8=-629/425, 5-8=-406/343, 6-8=-1123/2047

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 12 and 73 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T46	Flat	2	1	I50479107 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

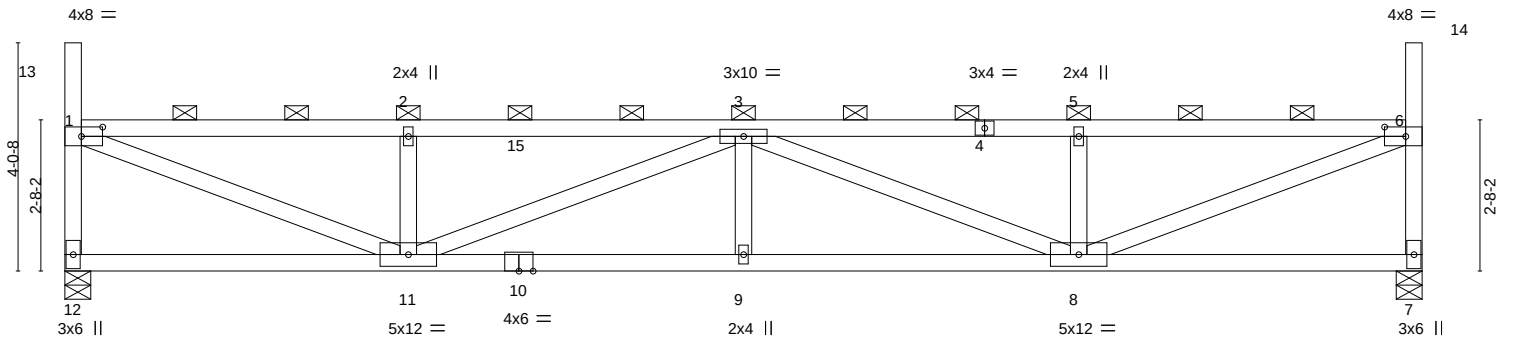
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T47	Flat	2	1	I50479108
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:18 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-yKL?R?ZRYBLGA19LpoNF_9ZHcTfXjABqExs0HJzgdfB

6-1-0	12-0-4	17-11-8	24-0-8
6-1-0	5-11-4	5-11-4	6-1-0

Scale = 1:40.8



6-1-0	12-0-4	17-11-8	24-0-8
6-1-0	5-11-4	5-11-4	6-1-0

Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	0.17	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.30	9-11	>965	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (3-7-13 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-11 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-198(LC 12)
Max Uplift 12=-72(LC 10), 7=-72(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-949/559, 1-2=-1938/1041, 2-3=-1938/1041, 3-5=-1938/1040, 5-6=-1938/1040, 6-7=-949/559
BOT CHORD 11-12=-354/321, 9-11=-1432/2503, 8-9=-1432/2503
WEBS 1-11=-1103/2018, 2-11=-406/344, 3-11=-619/422, 3-8=-619/417, 5-8=-406/343, 6-8=-1106/2018

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 12 and 72 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T47	Flat	2	1	I50479108 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

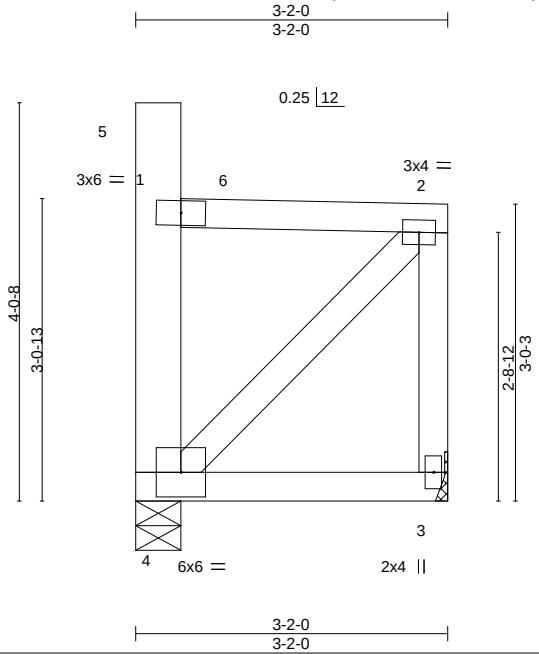
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T48	Roof Special	16	1	I50479109
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:19 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-QWvNfLa3JUT7oBkYNWuUXN6Ybt80SoL_TbbZplzgdfA



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.00	3-4	>999	240	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	3-4	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP							Weight: 20 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
4-5: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-140(LC 10)
Max Uplift 4=-100(LC 10), 3=-112(LC 11)
Max Grav 4=160(LC 26), 3=172(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-147/317
WEBS 2-4=-289/353

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 4 and 112 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-48, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-6=-48
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T48	Roof Special	16	1	I50479109 Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 2-6=-41, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-52-to-6=-41
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-47-to-6=-36
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-40-to-6=-28
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-47-to-6=-36
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-40-to-6=-28
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-6=-60

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

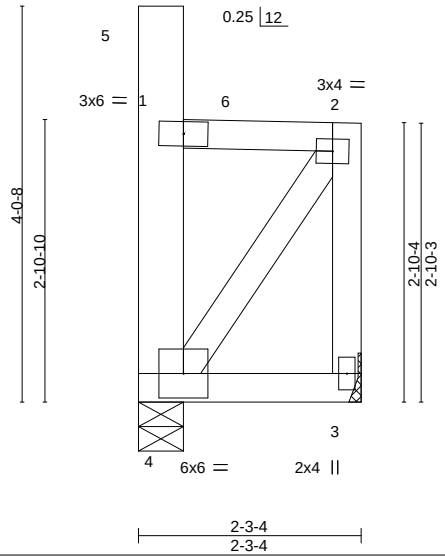
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T49	Roof Special	20	1	I50479110
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:19 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-QWvNfLa3JUT7oBkYNWuUXN6ZHt9kSot_TbbZplzgdfA

2-3-4
2-3-4

Scale = 1:23.5



2-3-4
2-3-4

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.00	4	>999	240	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	3-4	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP							Weight: 17 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
4-5: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=0-5-8
Max Horz 4=-143(LC 10)
Max Uplift 3=-166(LC 11), 4=-159(LC 10)
Max Grav 3=197(LC 12), 4=184(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-342/363
WEBS 2-4=-344/492

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 3 and 159 lb uplift at joint 4.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-48, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-6=-48
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 1,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T49	Roof Special	20	1	I50479110 Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 2-6=-41, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-52-to-6=-41
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-47-to-6=-36
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-40-to-6=-28
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-47-to-6=-36
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-40-to-6=-28
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-6=-60

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T52	Flat Supported Gable	2	1	I50479111
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:20 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-uiSmsgbi4ob_QKJkxDPj4afhcGUGBEX7iFL7LCzgdf9

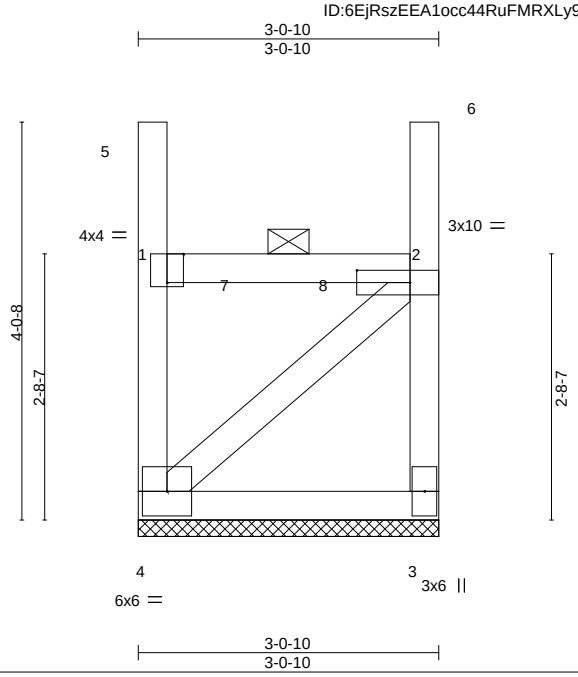


Plate Offsets (X,Y)-- [1:0-2-0,Edge], [2:0-6-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, 2-6, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=3-0-10, 3=3-0-10
Max Horz 4=196(LC 11)
Max Uplift 4=-179(LC 10), 3=-179(LC 11)
Max Grav 4=211(LC 22), 3=211(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-252/212, 2-3=-318/589
WEBS 2-4=-616/618

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 4 and 179 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 1,2022

LOAD CASE(S) Standard

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T52	Flat Supported Gable	2	1	I50479111 Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-8=-58, 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-73-to-7=-58, 8=-58-to-2=-73
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-8=-48, 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-60-to-7=-48, 8=-48-to-2=-60
21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-8=-36, 3-4=-20
   Horz: 1-4=18, 1-5=37, 2-3=5, 2-6=25
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-7=-36, 8=-36-to-2=-47
22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-8=-36, 3-4=-20
   Horz: 1-4=-5, 1-5=-25, 2-3=-18, 2-6=-37
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-7=-36, 8=-36-to-2=-47
23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-8=-36, 3-4=-20
   Horz: 1-4=14, 1-5=-25, 2-3=3, 2-6=25
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-7=-36, 8=-36-to-2=-47
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-8=-36, 3-4=-20
   Horz: 1-4=-3, 1-5=-25, 2-3=-14, 2-6=25
   Trapezoidal Loads (plf)
   Vert: 1=-47-to-7=-36, 8=-36-to-2=-47
29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-8=-60, 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-75-to-7=-60, 8=-60-to-2=-75

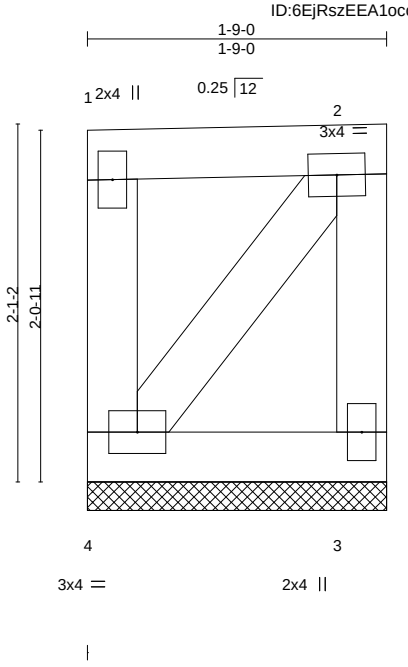
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE01	Blocking Supported	8	1	I50479112
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:21 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-Mv0840cKr6jr1UuwUxwycoBwsgrTwjeGxv4gtezgdf8



Scale = 1:13.5

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-9-0, 3=1-9-0
Max Horz 4=55(LC 13)
Max Uplift 4=-35(LC 10), 3=-29(LC 11)
Max Grav 4=73(LC 26), 3=66(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 4 and 29 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

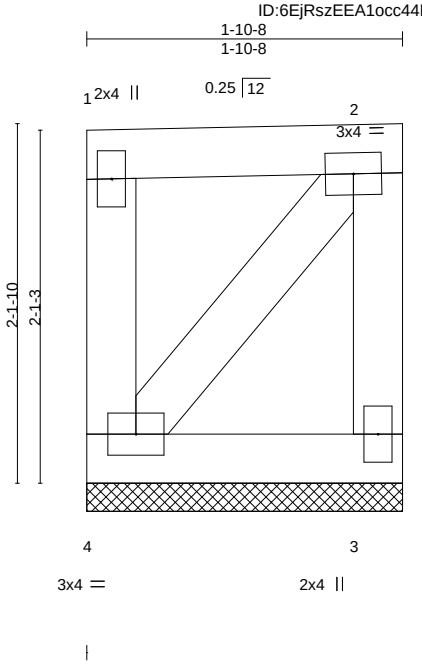
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE02	Blocking Supported	8	1	I50479113
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:22 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-q5aWHMdycPrifeS62eRB9?k5U4BffAuQ9ZqDQ4zgdf7



Scale = 1:13.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=56(LC 13)
Max Uplift 4=-34(LC 10), 3=-28(LC 11)
Max Grav 4=76(LC 26), 3=69(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 4 and 28 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

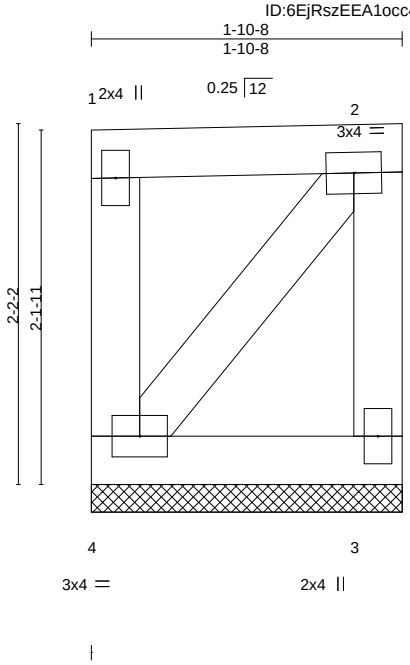
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE03	Blocking Supported	8	1	I50479114
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:22 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-q5aWHMdycPrifeS62eRB9?k5U4BffAtQ9ZqDQ4zgdf7



Scale = 1:13.9

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=57(LC 13)
Max Uplift 4=-36(LC 10), 3=-29(LC 11)
Max Grav 4=77(LC 26), 3=70(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 4 and 29 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

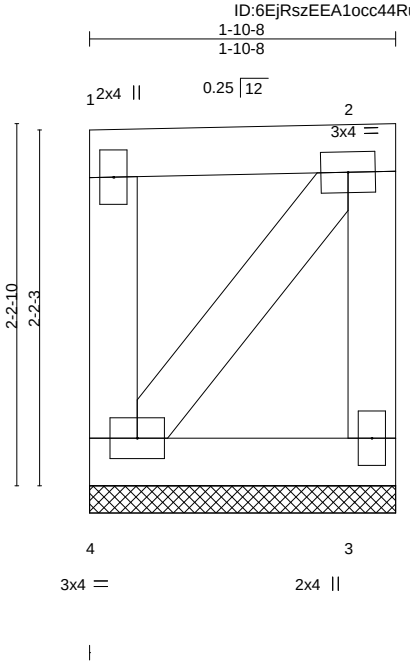
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE04	Blocking Supported	8	1	I50479115 Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:23 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-IH8uUidaNjzZHo1JcMyQhDHGDUXuOd6ZODZnyWzgdf6



Scale = 1:14.1

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=58(LC 13)
Max Uplift 4=-37(LC 10), 3=-31(LC 11)
Max Grav 4=78(LC 26), 3=71(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 4 and 31 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

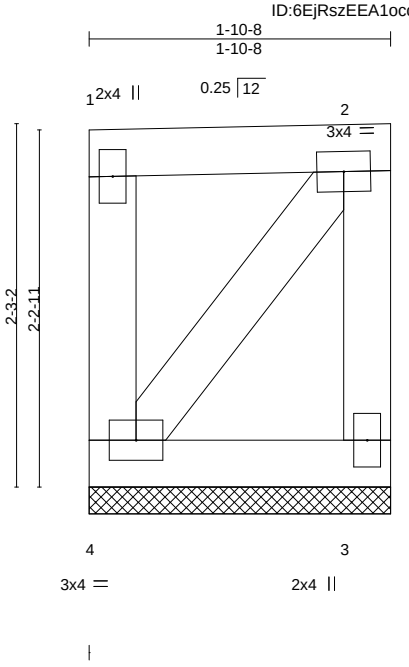
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE05	Blocking Supported	8	1	I50479116
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:24 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-mUiGi2eC816QuycVA3UfEQpRztt774LjdtJKUzzgdf5



Scale = 1:14.3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=60(LC 13)
Max Uplift 4=-39(LC 10), 3=-32(LC 11)
Max Grav 4=80(LC 26), 3=72(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 4 and 32 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

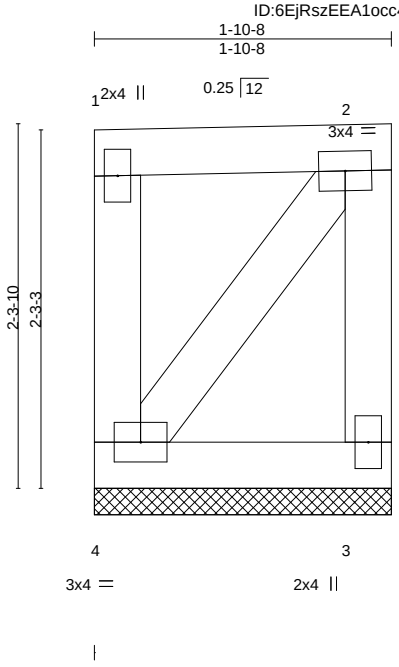
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE06	Blocking Supported	8	1	I50479117
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:25 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-FgGfvOfqvKEGW6Bhjn?umeMcjHCMsXasrX2t0Pzgdf4



Scale = 1:14.5

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=61(LC 13)
Max Uplift 4=-40(LC 10), 3=-34(LC 11)
Max Grav 4=81(LC 26), 3=73(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 4 and 34 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

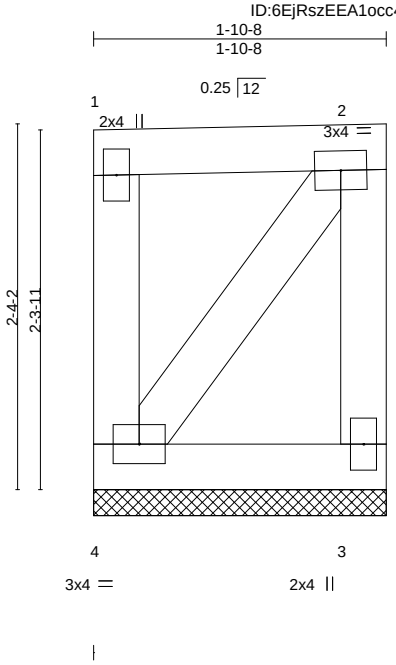
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE07	Blocking Supported	8	1	I50479118
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:25 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-FgGfvOfqvKEGW6Bhjn?umeMciHCMsXZsrX2t0Pzgdf4



Scale = 1:14.8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=62(LC 13)
Max Uplift 4=-42(LC 10), 3=-35(LC 11)
Max Grav 4=82(LC 26), 3=74(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 4 and 35 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

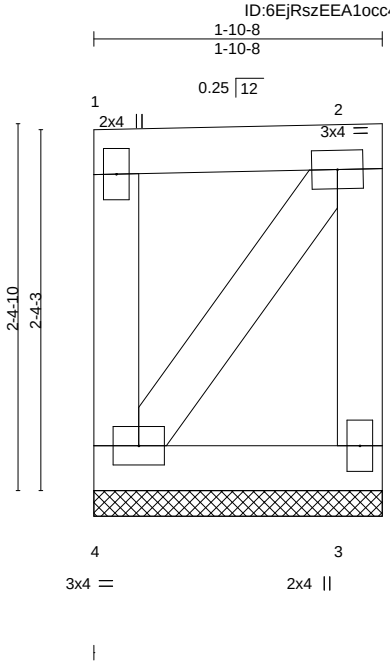
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE08	Blocking Supported	8	1	I50479119
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:26 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-jsq17kgSgeM78FmuHUW7JrvnQhYbb_o?4BoRZrzgdf3



Scale = 1:15.0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=63(LC 11)
Max Uplift 4=-44(LC 10), 3=-37(LC 11)
Max Grav 4=83(LC 26), 3=76(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 4 and 37 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

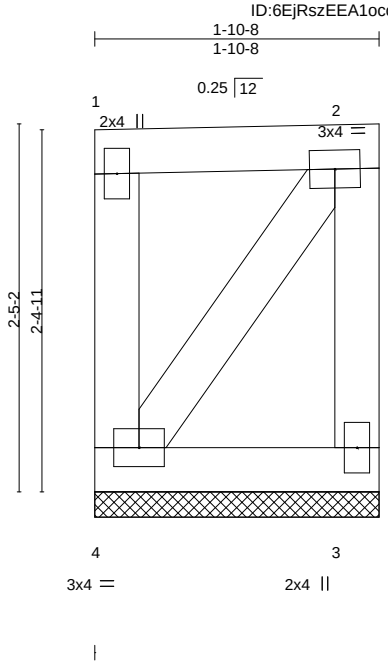
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE09	Blocking Supported	8	1	I50479120
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:27 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-B3NPK4g5RyU_lPL4rB1Ms3Ry85uqKR19JqX_5Izgdf2



Scale = 1:15.2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=65(LC 13)
Max Uplift 4=-45(LC 10), 3=-39(LC 11)
Max Grav 4=84(LC 26), 3=77(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 4 and 39 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

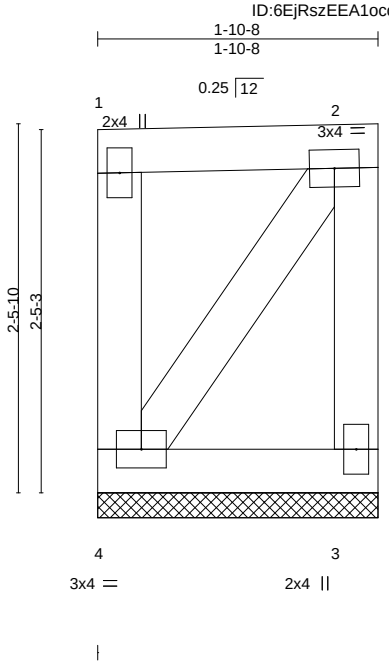
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE10	Blocking Supported	8	1	I50479121
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:27 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-B3NPK4g5RyU_lPL4rB1Ms3Rx65uqKR09JqX_5Izgdf2



Scale = 1:15.4

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=66(LC 13)
Max Uplift 4=-47(LC 10), 3=-41(LC 11)
Max Grav 4=86(LC 26), 3=78(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 4 and 41 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

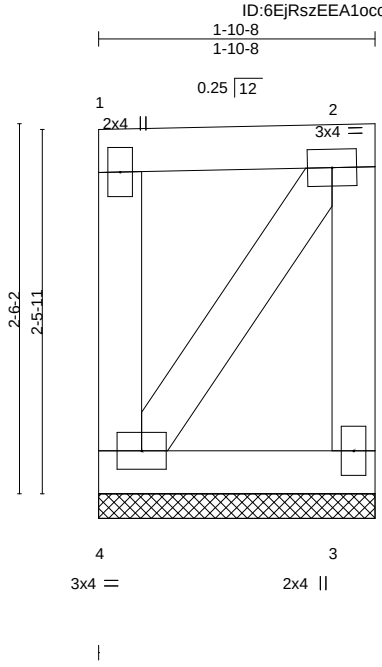
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE11	Blocking Supported	8	1	I50479122
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:28 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-fFxnYQhjCFcrNZwGPvYbOG_6qVE33uFIYUHYdkzgdf1



Scale = 1:15.6

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 11 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=67(LC 11)
Max Uplift 4=-49(LC 10), 3=-42(LC 11)
Max Grav 4=87(LC 26), 3=79(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 4 and 42 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

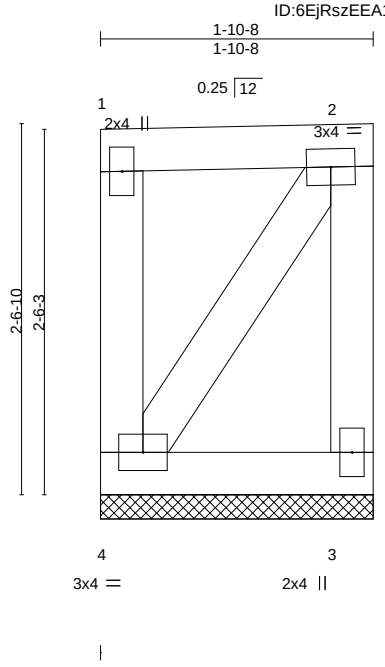
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE12	Blocking Supported	8	1	I50479123 Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:29 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-7RV9liLzZki?jVTyc3qxUXHXuaIoKUSm8059Azgdf0



Scale: 3/4"=1'

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=69(LC 13)
Max Uplift 4=-50(LC 10), 3=-44(LC 11)
Max Grav 4=88(LC 26), 3=81(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 4 and 44 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

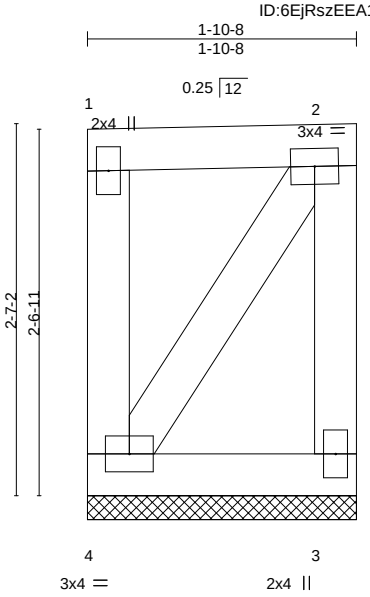
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE13	Blocking Supported	8	1	I50479124 Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:29 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-7RV9lliLzZki?jVTyc3qxUXHOuaIoKTSm8059Azgdf0



Scale: 3/4"=1'

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=70(LC 11)
Max Uplift 4=-52(LC 10), 3=-46(LC 11)
Max Grav 4=90(LC 26), 3=82(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 4 and 46 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

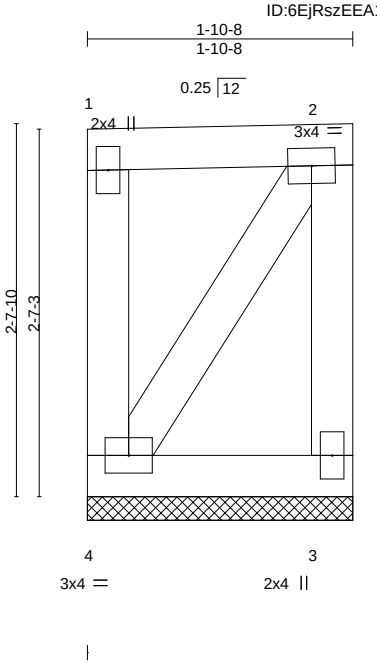
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE14	Blocking Supported	8	1	I50479125 Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:30 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-bd3Yy5jzktsZct4fWKa3Th3S5IwXXnib?omeiczgdf?



Scale = 1:16.3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=71(LC 13)
Max Uplift 4=-54(LC 10), 3=-48(LC 11)
Max Grav 4=91(LC 26), 3=83(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 4 and 48 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

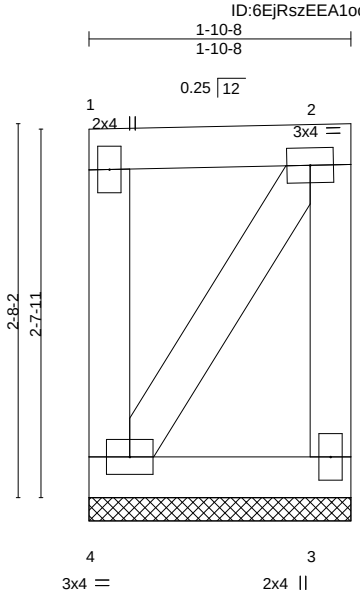
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE15	Blocking Supported	8	1	I50479126
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:31 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-3qdwARkbUA_QE1er416I0vcdoiFmGExlESVCE3zgdf_



Scale = 1:16.5

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=72(LC 13)
Max Uplift 4=-56(LC 10), 3=-50(LC 11)
Max Grav 4=93(LC 26), 3=85(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 4 and 50 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

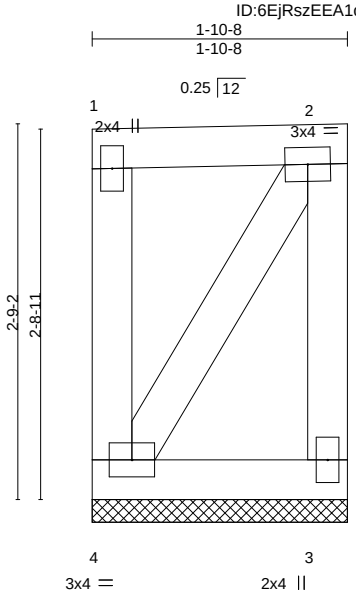
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE16	Blocking Supported	6	1	I50479127
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:31 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-3qdwARkbUA_QE1er416I0vcdjiFmGEvlESVCE3zgdf_



Scale = 1:16.9

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=75(LC 11)
Max Uplift 4=-60(LC 10), 3=-53(LC 11)
Max Grav 4=95(LC 26), 3=88(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 4 and 53 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

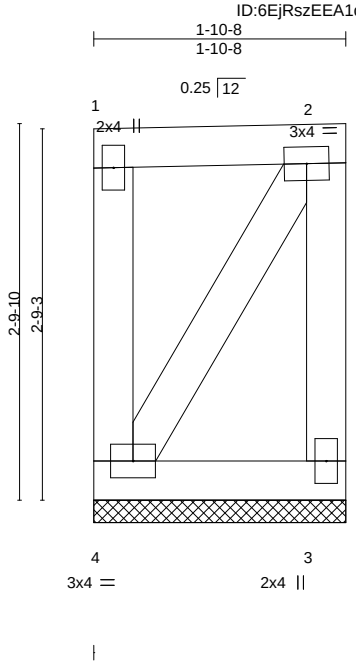
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE17	Blocking Supported	6	1	I50479128
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:32 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-X0BINnkDFU6HsAD1eldXZ69oQ6b??h7uS6FllVzgdez



Scale = 1:17.1

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=76(LC 13)
Max Uplift 4=-62(LC 10), 3=-55(LC 11)
Max Grav 4=97(LC 26), 3=89(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 4 and 55 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

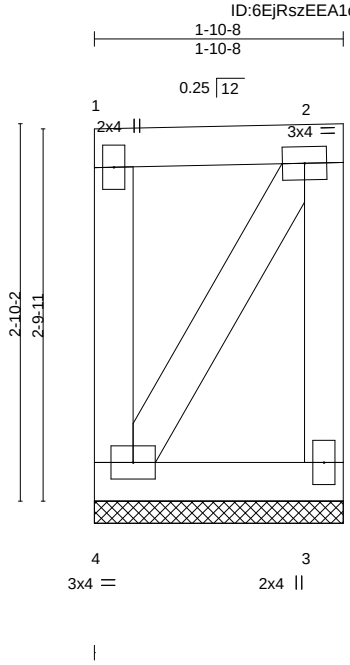
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE18	Blocking Supported	6	1	I50479129
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:33 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-0Clgb7Is0oE8TKoEBS8m5Khy8WxEk8L1hm_JIxzgdey



Scale = 1:17.4

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=77(LC 11)
Max Uplift 4=-64(LC 10), 3=-58(LC 11)
Max Grav 4=98(LC 26), 3=91(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 4 and 58 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

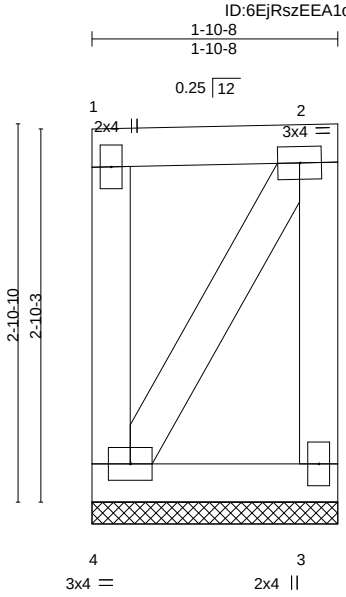
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE19	Blocking Supported	2	1	I50479130
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:33 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-0Clgb7ls0oE8TKoEBS8m5Khy5WxEk8K1hm_JIxzgdey



Scale = 1:17.6

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=79(LC 13)
Max Uplift 4=-66(LC 10), 3=-60(LC 11)
Max Grav 4=100(LC 26), 3=92(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 4 and 60 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

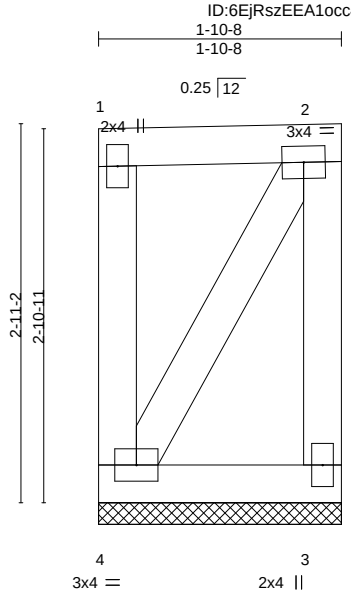
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE20	Blocking Supported	2	1	I50479131
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:34 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-UPJ2oTmUn5M?5UNQl9f?eXE7ovHSTbZBwQksqOzgdex



Scale = 1:17.8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=80(LC 11)
Max Uplift 4=-68(LC 10), 3=-62(LC 11)
Max Grav 4=102(LC 26), 3=94(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-198/252

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 4 and 62 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

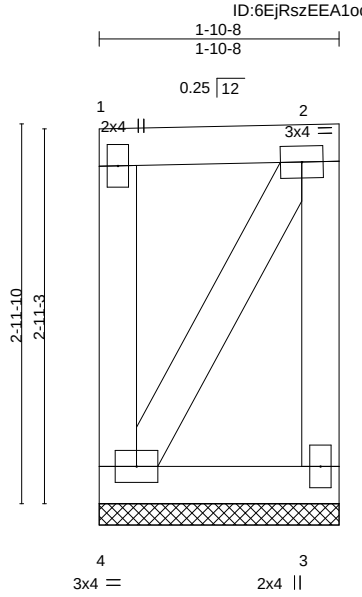
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE21	Blocking Supported	2	1	I50479132
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:35 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-ybsR0pn6YPUsjeycJtAEAlmIVJdhC2oK94TPMqzgdew



Scale = 1:18.0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=81(LC 11)
Max Uplift 4=-70(LC 10), 3=-64(LC 11)
Max Grav 4=103(LC 26), 3=95(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-204/258

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 4 and 64 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

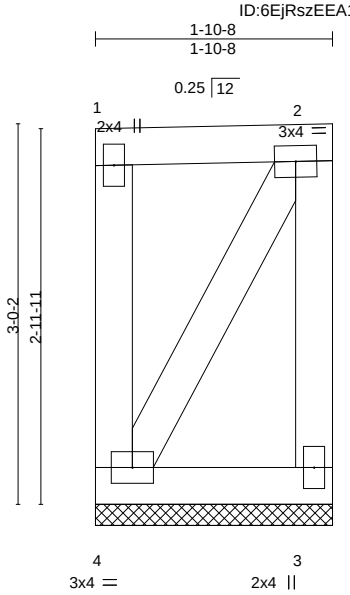
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE22	Blocking Supported	2	1	I50479133
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:36 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-QnQpD9nkJjcjKoXptahTjyJTBjzwxV1UNkDzuGzgdev



Scale = 1:18.2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=82(LC 13)
Max Uplift 4=-72(LC 10), 3=-66(LC 11)
Max Grav 4=105(LC 26), 3=97(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-209/264

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 4 and 66 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 1,2022

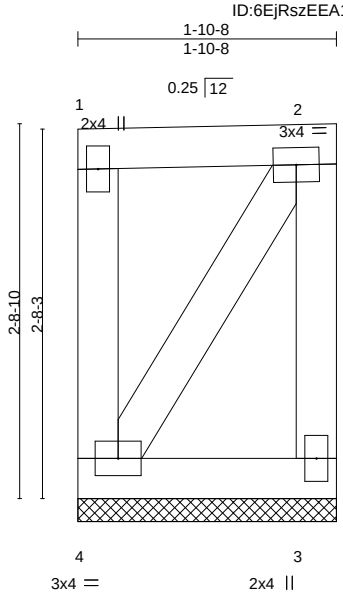
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE23	Blocking Supported	2	1	I50479134
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:36 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-QnQpD9nkJjcjKoXptahTjyJTVjzwxV9UNkDzuGzgdev



Scale = 1:16.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=74(LC 11)
Max Uplift 4=-58(LC 10), 3=-52(LC 11)
Max Grav 4=94(LC 26), 3=86(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 4 and 52 lb uplift at joint 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

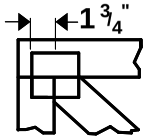
March 1,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

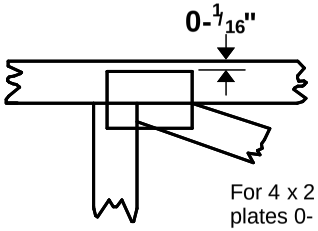
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

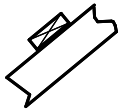
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

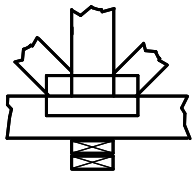
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

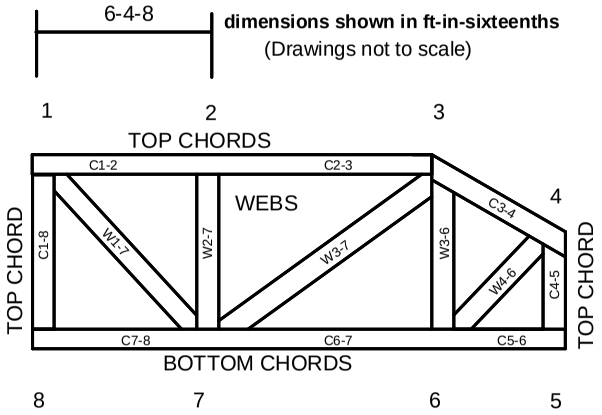


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

© 2012 MiTek® All Rights Reserved

MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 3

Group 4 Floor Layout

Total Truss Quantity = 180.

Total Plan Area with OHs = 4292 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
=	THA422	126	Simpson
=	THA422-2	4	Simpson

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED, REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 03/27/2022 BY: CB

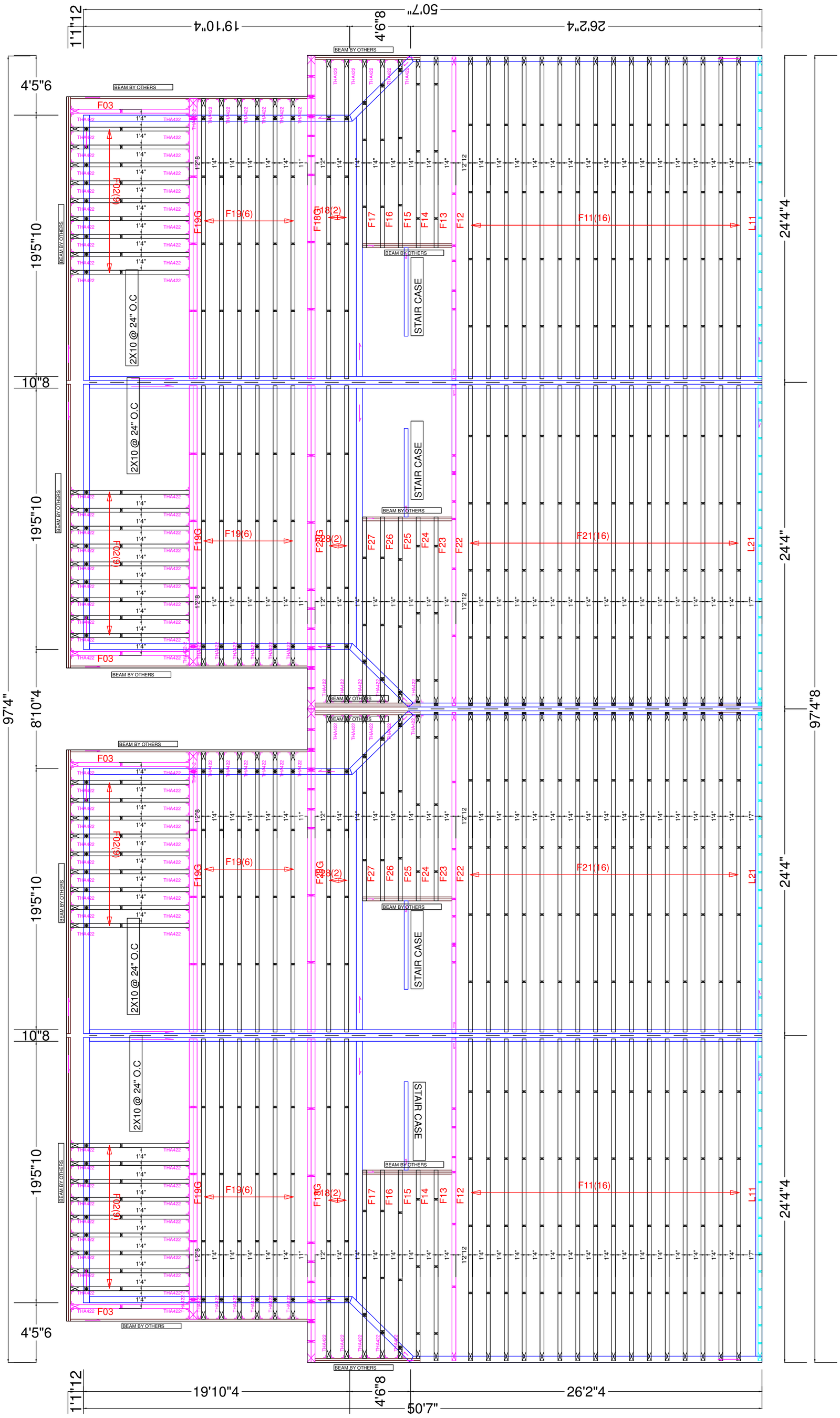
REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 3/29/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRi ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com



DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

mill Creek
3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-6108

Job Name: McCambridge Brothers Construction

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Designer: Juan R Quiroz

Address: TBA Lee's Summit MO

Reference #: JB-220683

Date: 3/17/2022

Building

Alpine, an ITW company
514 Earth City Expressway
Suite 242
Earth City, MO 63045
Phone: (800)326-4102 (314)344-9121
alpineitw.com

Site Information:	Page 1:
Customer: Mill Creek Truss	*Job Number:* JB-220683
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA	
Address: TBA, Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1XdW93160006
Wind Standard: ASCE716 *Wind Speed (mph):* 0 *Building Type:*	*Design Loading (psf):* 75.00

This package contains general notes pages, 24 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	075.22.1440.27690	F02
3	075.22.1440.28833	F11
5	075.22.1440.28465	F13
7	075.22.1440.28336	F15
9	075.22.1440.28933	F17
11	075.22.1440.28734	F18G
13	075.22.1440.35491	F19G
15	075.22.1440.28972	F22
17	075.22.1440.27794	F24
19	075.22.1440.27861	F26
21	075.22.1440.27839	F28
23	075.22.1440.28531	L11
25	CNSY42PL0118	
27	LSCSYX2A1014	

Item	Drawing Number	Truss
2	075.22.1440.28506	F03
4	075.22.1440.35397	F12
6	075.22.1440.28082	F14
8	075.22.1440.28735	F16
10	075.22.1440.27835	F18
12	075.22.1440.35456	F19
14	075.22.1440.27683	F21
16	075.22.1440.28195	F23
18	075.22.1440.28576	F25
20	075.22.1440.27819	F27
22	075.22.1440.27824	F28G
24	075.22.1440.28683	L21
26	DEFLCAMB1014	
28	STRBRIBR1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

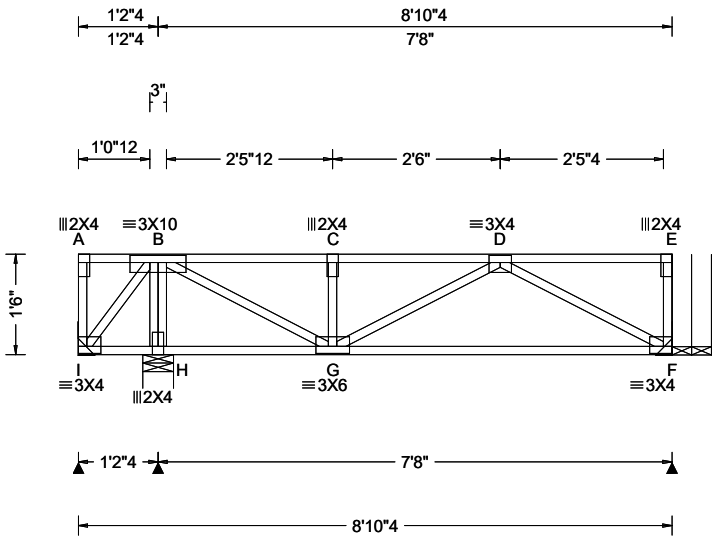
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 4

SEQN: 96319 / SY42 FROM:	Ply: 1 Qty: 36	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F02	Cust: R 9316 JRef: 1XdW93160006 T6 DrwNo: 075.22.1440.27690 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.018 C	999	480
VERT(CL):	0.034 C	999	360
HORZ(LL):	0.002 F	-	-
HORZ(TL):	0.004 F	-	-

Creep Factor: 2.0
Max TC CSI: 0.299
Max BC CSI: 0.301
Max Web CSI: 0.162

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
I	28 /-43	/-	/-	/-	/-
H	525 /-	/-	/-	/-	/-
F	372 /-	/-	/-	/-	/-

I Brg Wid = - Min Req = -
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
F Brg Wid = - Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-485	C - D	0	-485

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	473	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - H	0	-499	D - F	0	-537
B - G	576	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

missouri
bdc

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

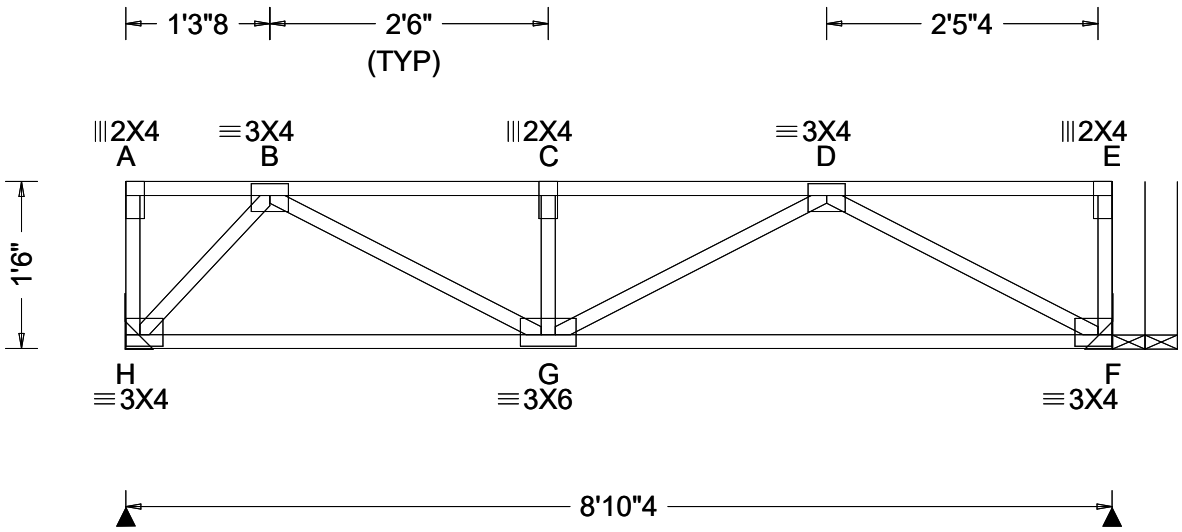
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96321 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F03	Cust: R 9316 JRef: 1XdW93160006 T7 / DrwNo: 075.22.1440.28506 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.024	C	999	480
VERT(CL): 0.046	C	999	360
HORZ(LL): 0.004	B	-	-
HORZ(TL): 0.008	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.298
Max BC CSI: 0.324
Max Web CSI: 0.141

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	443	/-	/-	/-	/-	/-
F	443	/-	/-	/-	/-	/-

H Brg Wid = - Min Req = -
F Brg Wid = - Min Req = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-747	C - D	0	-747

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	606	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - B	0	-546	D - F	0	-687
B - G	426	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

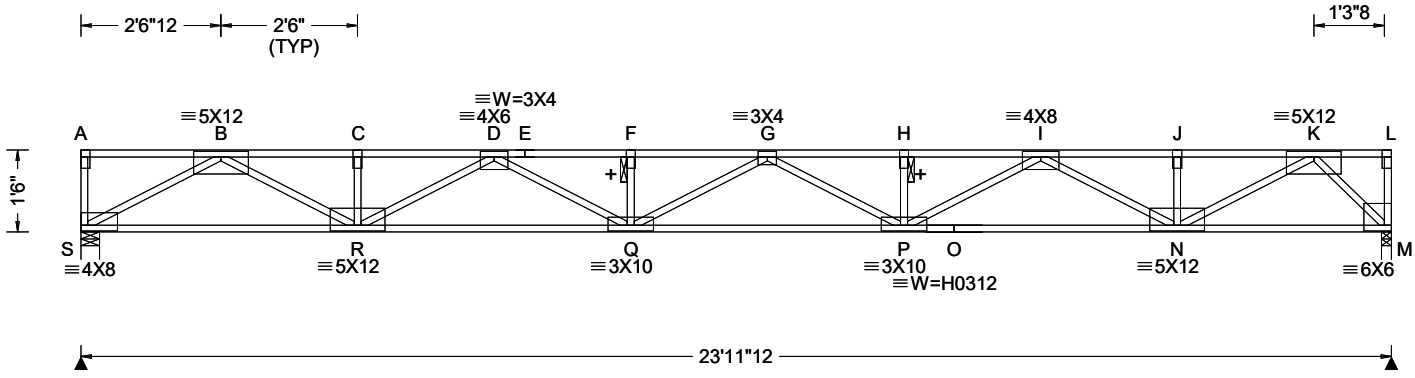
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96323 / SY42 FROM:	Ply: 1 Qty: 32	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F11	Cust: R 9316 JRef: 1XdW93160006 T28 / DrwNo: 075.22.1440.28833 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.414	G	695	480
VERT(CL): 0.775	G	371	360
HORZ(LL): 0.057	M	-	-
HORZ(TL): 0.107	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.398
Max BC CSI: 0.672
Max Web CSI: 0.551

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	1199	/-	/-	/-	/-	/-
M	1199	/-	/-	/-	/-	/-

S Brg Wid = 4.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3522	G - H	0	-4917
C - D	0	-3522	H - I	0	-4917
D - E	0	-5123	I - J	0	-2895
E - F	0	-5123	J - K	0	-2895
F - G	0	-5123			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	2010	0	P - O	4106	0
R - Q	4523	0	O - N	4106	0
Q - P	5219	0	N - M	1183	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2281	P - I	925	0
B - R	1725	0	I - N	0	-1382
R - D	0	-1143	N - K	1954	0
D - Q	684	0	K - M	0	-1648

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

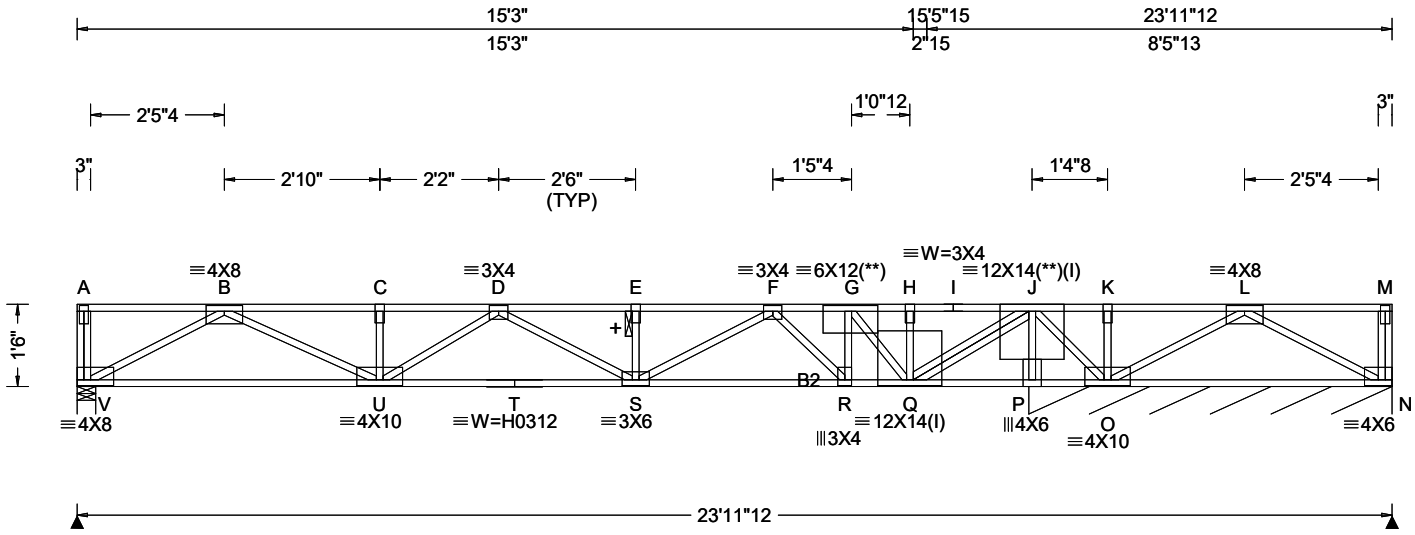
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96379 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F12	Cust: R 9316 JRef: 1XdW93160006 T1 / DrwNo: 075.22.1440.35397 CAT / NDW 03/16/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.201 E 999 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.377 E 545 360
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.029 B - -
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.054 B - -
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.946
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.960
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: No	Max Web CSI: 0.568
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	
	I: NA GCpi: NA	WAVE, HS	VIEW Ver: 21.02.00.1005.17
	Wind Duration: NA		

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	443	/-	/-	/-	/-	/-
N		/-304				

V Brg Wid = 4.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2615	G - H	0	-818
C - D	0	-2615	H - I	0	-818
D - E	0	-3202	I - J	0	-818
E - F	0	-3202	J - K	2031	0
F - G	0	-2426	K - L	2031	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1461	0	R - Q	2382	0
U - T	3059	0	Q - P	0	-2607
T - S	3059	0	P - O	0	-2607
S - R	2851	0	O - N	0	-784

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1680	G - Q	0	-2558
B - U	1283	0	Q - J	4025	0
U - D	0	-526	J - P	0	-2889
S - F	401	0	J - O	816	0
F - R	0	-615	O - L	0	-1423
R - G	488	0	L - N	897	0

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.98
BC: From 13 plf at 0.00 to 13 plf at 23.98
TC: 1500 lb Conc. Load at 14.06

Plating Notes

All plates are 2X4 except as noted.

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

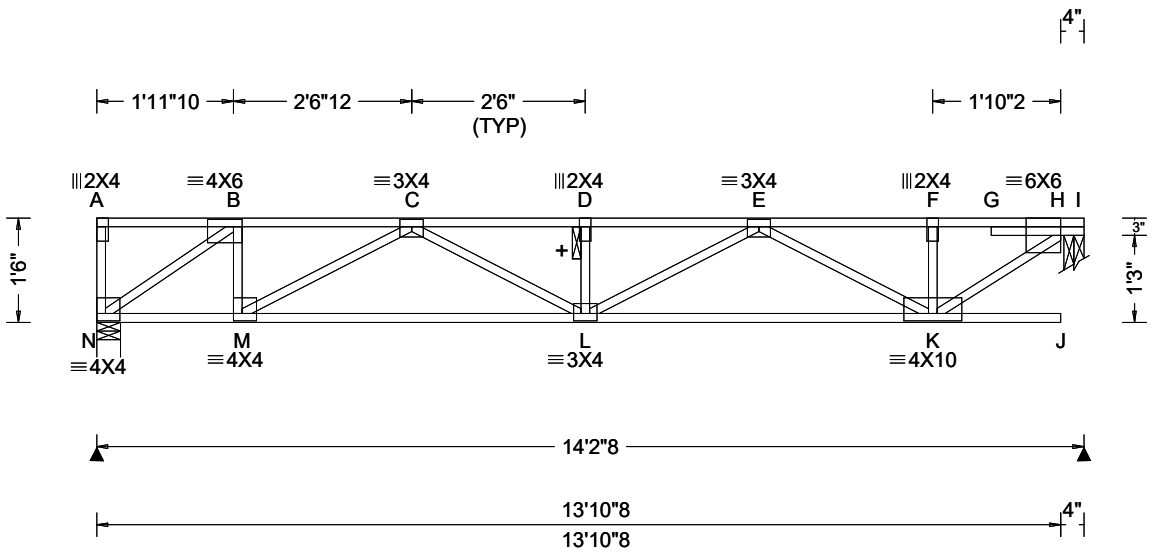
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96329 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F13	Cust: R 9316 JRef: 1XdW93160006 T23 / DrwNo: 075.22.1440.28465 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.096	D	999	480
VERT(CL): 0.179	D	942	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.030	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.620
Max BC CSI: 0.537
Max Web CSI: 0.329

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	702	/-	/-		/-	/-	/-
H	714	/-	/-		/-	/-	/-

N Brg Wid = 4.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-943	E - F	0	-943
C - D	0	-1836	F - H	0	-942
D - E	0	-1836			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	905	0	L - K	1574	0
M - L	1582	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1104	E - K	0	-721
B - M	416	0	K - H	1166	0
M - C	0	-734			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

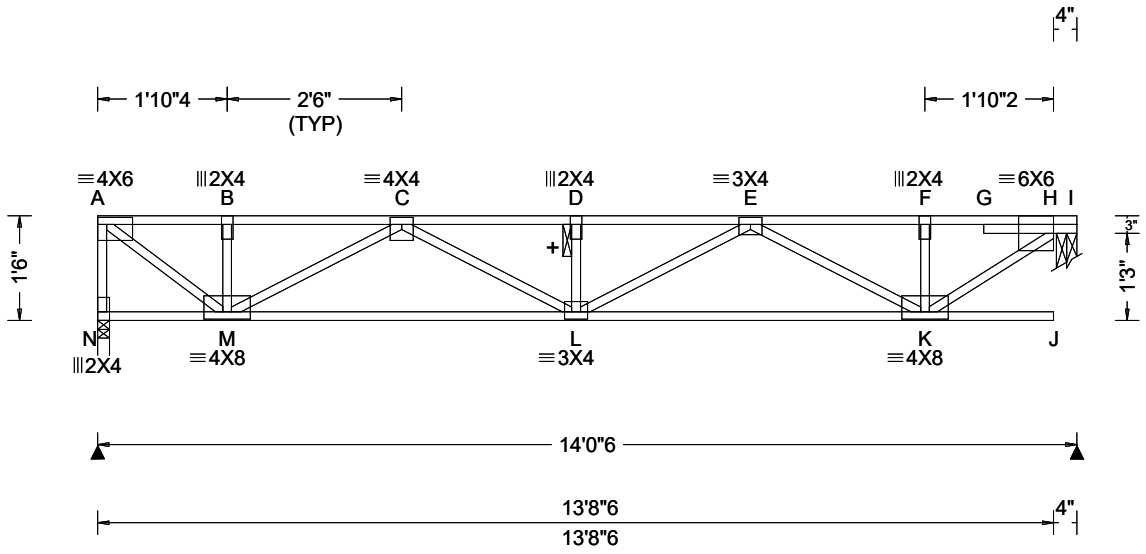
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96331 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F14	Cust: R 9316 JRef: 1XdW93160006 T15 / DrwNo: 075.22.1440.28082 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.093	D	999	480
VERT(CL): 0.174	D	955	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.612
Max BC CSI: 0.524
Max Web CSI: 0.324

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	693	/-	/-		/-	/-	/-
H	706	/-	/-		/-	/-	/-

N Brg Wid = 2.0 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-849	D - E	0	-1791
B - C	0	-849	E - F	0	-929
C - D	0	-1791	F - H	0	-929

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1520	0	L - K	1546	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-690	E - K	0	-703
A - M	1057	0	K - H	1150	0
M - C	0	-766			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

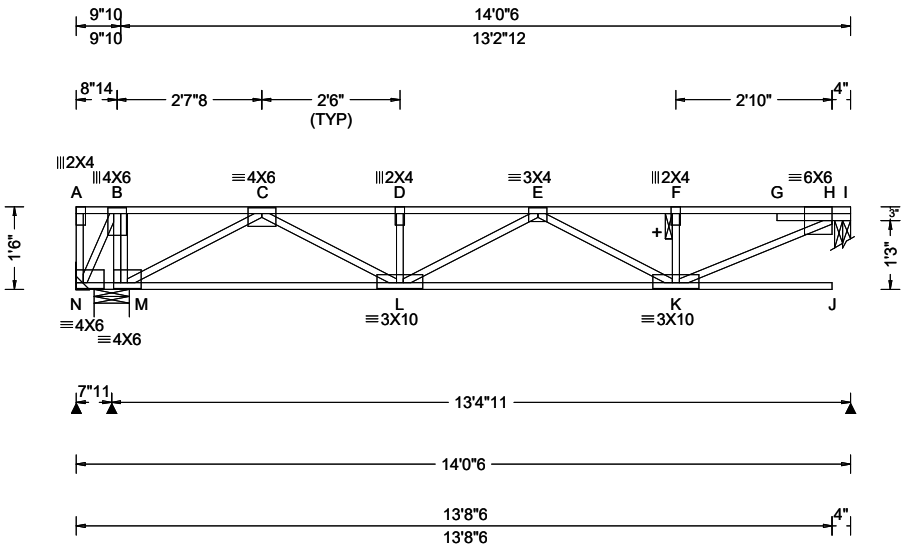
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96333 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F15	Cust: R 9316 JRef: 1XdW93160006 T26 / DrwNo: 075.22.1440.28336 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.200	J	780	480
VERT(CL): 0.320	J	487	360
HORZ(LL): 0.011	C	-	-
HORZ(TL): 0.020	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.961
Max BC CSI: 0.588
Max Web CSI: 0.339

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-708	/-	/-	/-	/-
N	1480	/-	/-	/-	/-	/-
H	618	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
N Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	400	0	E - F	0	- 1087
C - D	0	- 1207	F - H	0	- 1088
D - E	0	- 1207			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	600	0	L - K	1318	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	685	0	C - L	693	0
B - M	0	- 840	K - H	1201	0
M - C	0	- 1141			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -708# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

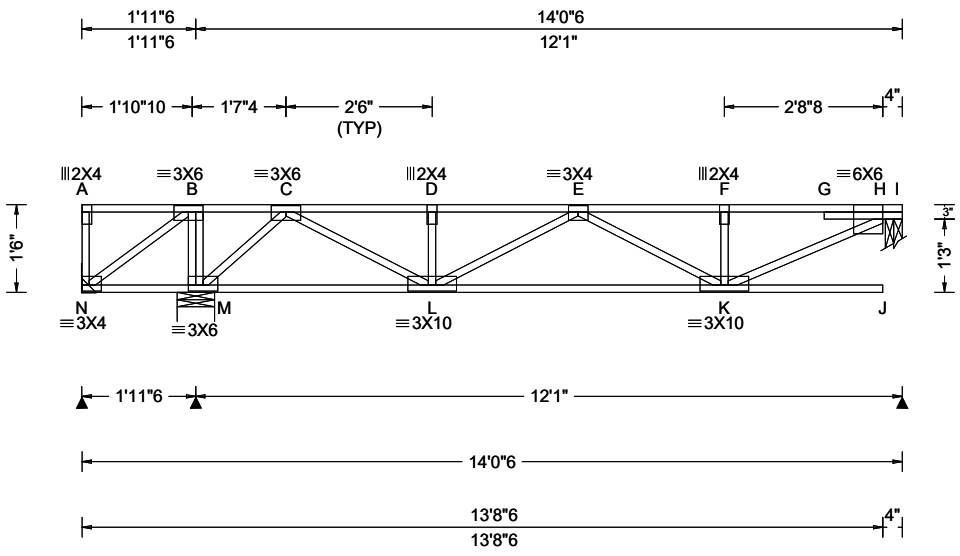
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96335 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F16	Cust: R 9316 JRef: 1XdW93160006 T33 / DrwNo: 075.22.1440.28735 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.159 J	897	480
VERT(CL):	0.249 J	570	360
HORZ(LL):	0.007 C	-	-
HORZ(TL):	0.013 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.283

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-323	/-	/-	/-	/-
M	1131	/-	/-	/-	/-	/-
I	547	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	511	0	E - F	0	-901
C - D	0	-818	F - H	0	-903
D - E	0	-818			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-469	L - K	1034	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	580	0	C - L	816	0
B - M	0	-512	K - H	1004	0
M - C	0	-842			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

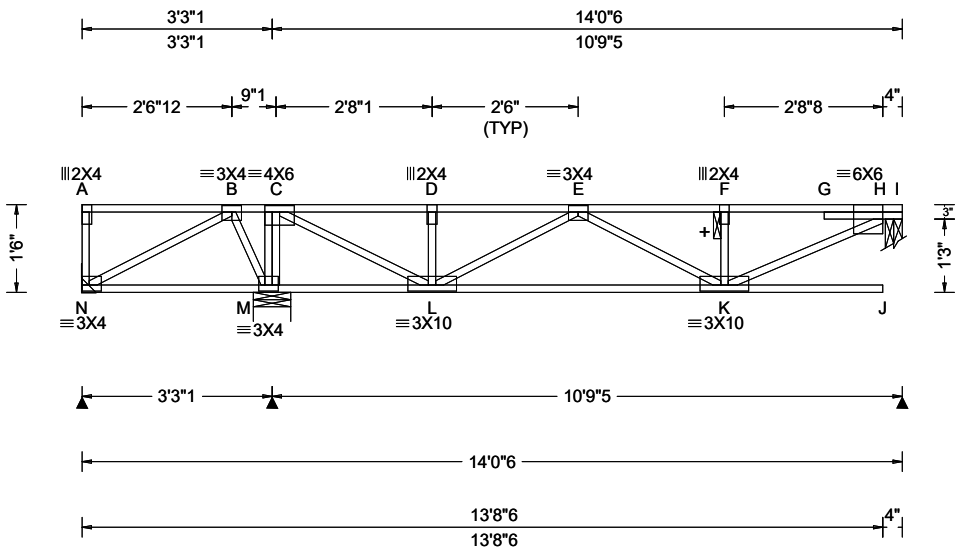
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96337 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F17	Cust: R 9316 JRef: 1XdW93160006 T20 / DrwNo: 075.22.1440.28933 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	870	480
VERT(CL): 0.233	J	550	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.749
Max BC CSI: 0.437
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
N	57 /-122	/-	/-	/-	/-	
M	959 /-	/-	/-	/-	/-	
I	491 /-	/-	/-	/-	/-	

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	423	0	E - F	0	-784
C - D	0	-500	F - H	0	-785
D - E	0	-500			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	818	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	-627	K - H	874	0
C - L	963	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

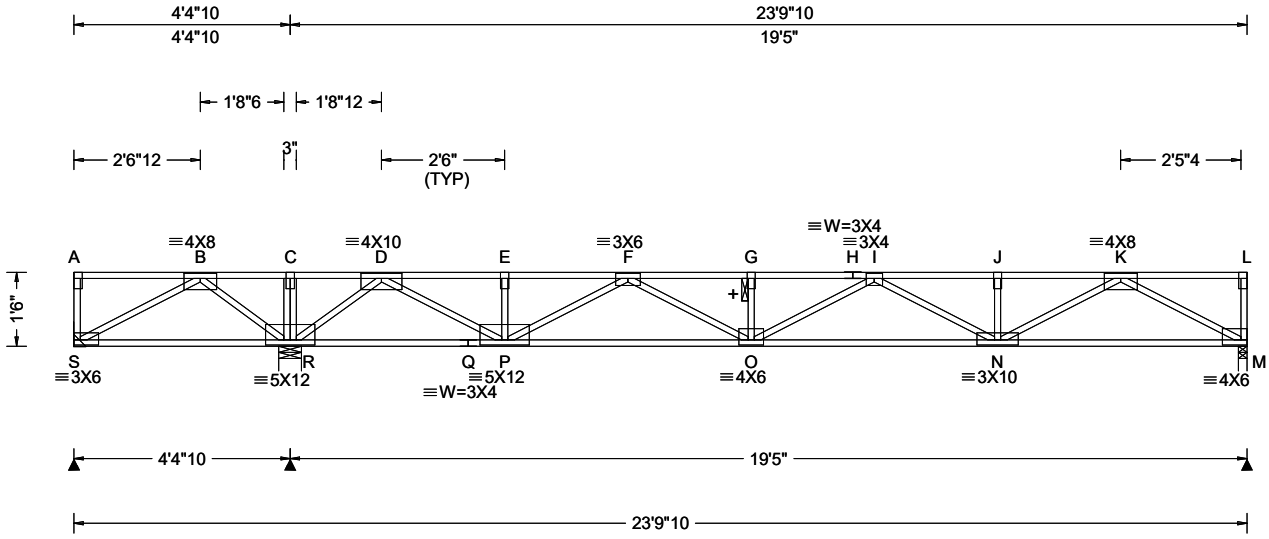
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96339 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F18	Cust: R 9316 JRef:1XdW93160006 T16 / DrwNo: 075.22.1440.27835 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	G	999	480
VERT(CL): 0.371	G	628	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.796
Max Web CSI: 0.466

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	-	/-458	/-	/-	/-	/-
R	1886	/-	/-	/-	/-	/-
M	844	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1750	0	G - H	0	-2537
C - D	1750	0	H - I	0	-2537
D - E	0	-1040	I - J	0	-2220
E - F	0	-1040	J - K	0	-2220
F - G	0	-2537			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	-955	P - O	1987	0
R - Q	0	-427	O - N	2580	0
Q - P	0	-427	N - M	1352	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1084	0	F - O	631	0
B - R	0	-1117	I - N	0	-411
R - D	0	-1648	N - K	991	0
D - P	1653	0	K - M	0	-1535
P - F	0	-1085			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -458# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

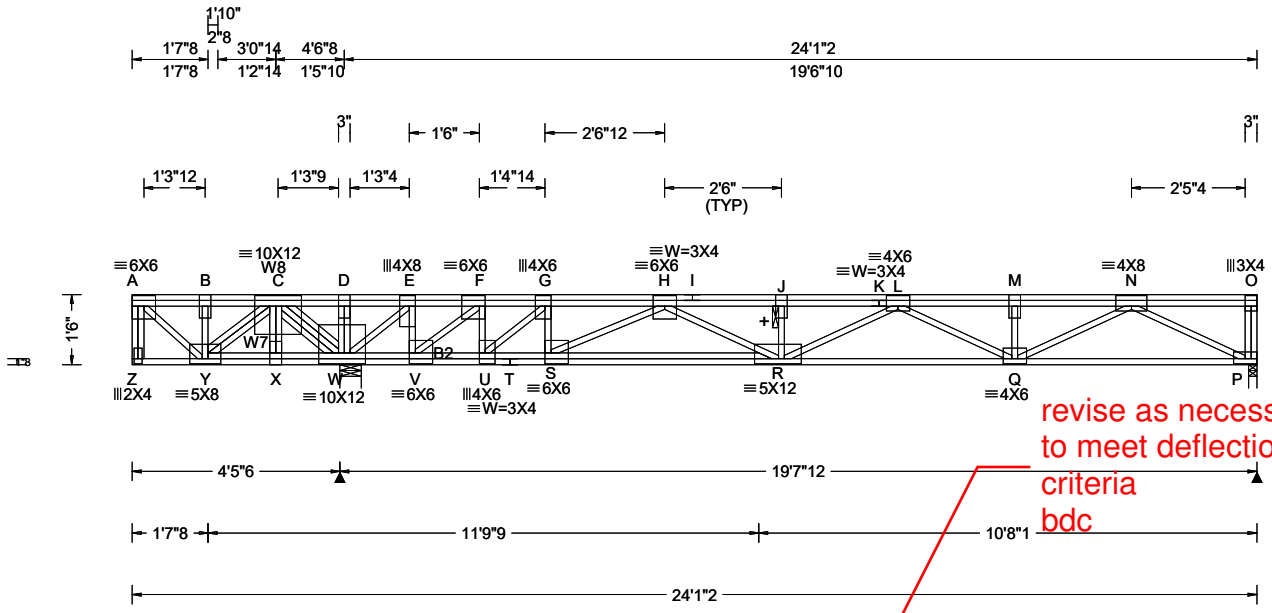
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96341 / SY42 FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F18G	Cust: R 9316 JRef: 1XdW93160006 T17 / DrwNo: 075.22.1440.28734 / NDW 03/16/2022

2 Complete Trusses Required



revise as necessary to meet deflection criteria bdc

Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.124 Z	435	480
VERT(CL):	0.263 Z	204	360
HORZ(LL):	-0.027 A	-	-
HORZ(TL):	0.058 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.885
Max BC CSI: 0.247
Max Web CSI: 0.249

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
W	8317	/-	/-	/-	/-	/-
P	962	/-165	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	420	0	H - I	1554	-1705
B - C	420	0	I - J	1554	-1705
C - D	4753	0	J - K	1551	-1711
D - E	4749	0	K - L	1551	-1711
E - F	4209	-367	L - M	534	-1347
F - G	3615	-827	M - N	534	-1347
G - H	3087	-1193			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	-1228	T - S	1169	-3130
X - W	0	-1219	S - R	1563	-2265
W - V	329	-4254	R - Q	1631	-993
V - U	793	-3663	Q - P	784	-222
U - T	1169	-3130			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	-548	G - S	539	0
Y - C	1053	0	S - H	0	-1139
C - W	0	-4787	H - R	869	0
W - E	0	-999	R - L	89	-626
E - V	636	0	L - Q	518	-321
V - F	0	-1035	Q - N	636	-353
F - U	652	0	N - P	250	-860
U - G	0	-919			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7,W8 4x2 DF-L 2400f-2.0E;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes

All plates are 3X6 except as noted.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

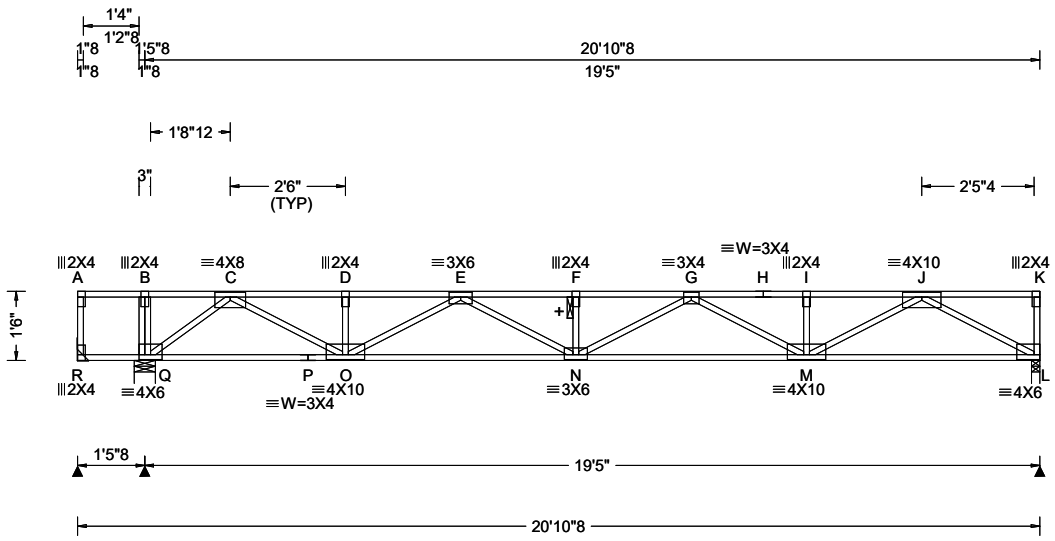
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 9774 / SY42 FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F19	Cust: R 9316 JRef: 1XdW93160006 T34 / DrwNo: 075.22.1440.35456 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.246	F	943	480
VERT(CL): 0.462	F	502	360
HORZ(LL): 0.038	L	-	-
HORZ(TL): 0.072	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.485
Max BC CSI: 0.960
Max Web CSI: 0.397

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	27	/-42	/-	/-	/-	/-
Q	1134	/-	/-	/-	/-	/-
L	962	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-2320	G - H	0	-2651
D - E	0	-2320	H - I	0	-2651
E - F	0	-3393	I - J	0	-2651
F - G	0	-3393			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1089	0	N - M	3224	0
P - O	1089	0	M - L	1570	0
O - N	3055	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - C	0	-1383	G - M	0	-654
C - O	1407	0	M - J	1233	0
O - E	0	-839	J - L	0	-1782
E - N	387	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

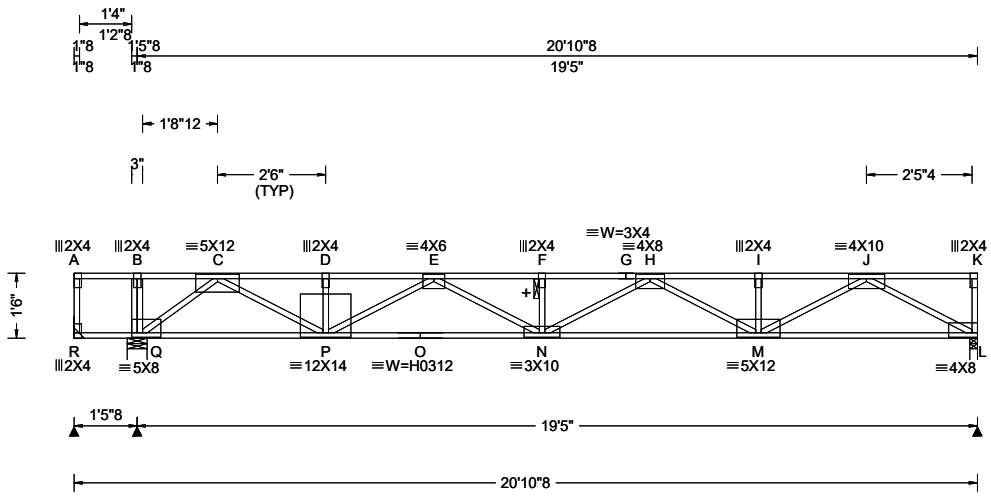
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 9776 / SY42 FROM:	Ply: 2 Qty: 4	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F19G	Cust: R 9316 JRef: 1XdW93160006 T8 / DrwNo: 075.22.1440.35491 / NDW 03/16/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.290	F	799	480
VERT(CL): 0.545	F	426	360
HORZ(LL): 0.041	C	-	-
HORZ(TL): 0.076	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.583
Max BC CSI: 0.585
Max Web CSI: 0.629

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	24	/-58	/-	/-	/-	/-
Q	3942	/-	/-	/-	/-	/-
L	1997	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-3789	G - H	0	-5138
D - E	0	-3789	H - I	0	-3219
E - F	0	-5138	I - J	0	-3219
F - G	0	-5138			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1835	0	N - M	4478	0
P - O	4877	0	M - L	1748	0
O - N	4877	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - Q	0	-465	F - N	0	-473
Q - C	0	-2340	N - H	753	0
C - P	2229	0	H - M	0	-1437
D - P	0	-467	M - J	1679	0
P - E	0	-1242	J - L	0	-1984

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
Webs: 4x2 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 20.88
BC: From 13 plf at 0.00 to 13 plf at 20.88
TC: 443 lb Conc. Load at 0.94
TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27 7.60, 8.94,10.27,11.60,12.94

Deflection
Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

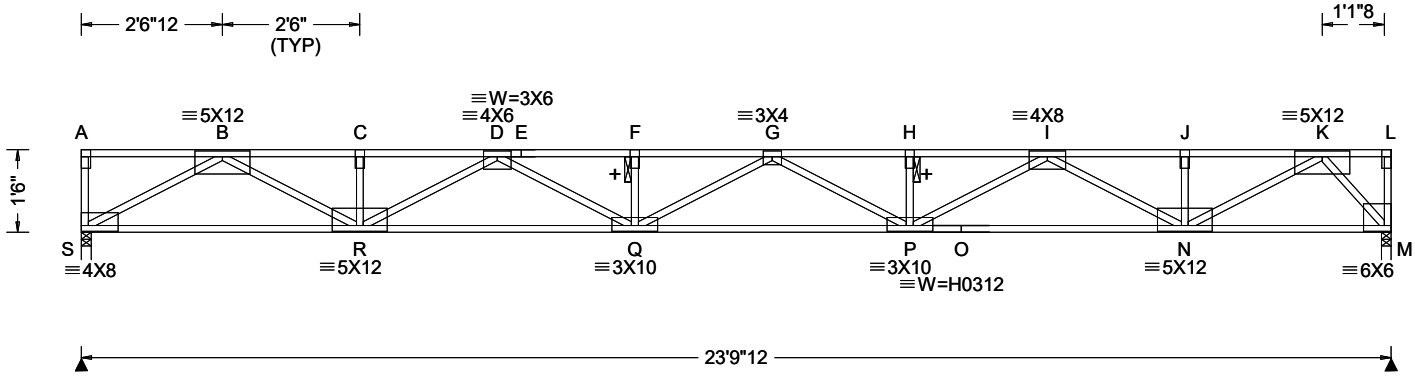
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96343 / SY42 FROM:	Ply: 1 Qty: 32	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F21	Cust: R 9316 JRef: 1XdW93160006 T19 / DrwNo: 075.22.1440.27683 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.419	G	682	480
VERT(CL): 0.785	G	364	360
HORZ(LL): 0.056	M	-	-
HORZ(TL): 0.104	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.442
Max BC CSI: 0.664
Max Web CSI: 0.556

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
S	1191	/-	/-		/-	/-	/-
M	1191	/-	/-		/-	/-	/-

S Brg Wid = 2.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3491	G - H	0	-4826
C - D	0	-3491	H - I	0	-4826
D - E	0	-5062	I - J	0	-2773
E - F	0	-5062	J - K	0	-2773
F - G	0	-5062			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	1995	0	P - O	4000	0
R - Q	4479	0	O - N	4000	0
Q - P	5145	0	N - M	1047	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2264	P - I	942	0
B - R	1707	0	I - N	0	-1401
R - D	0	-1127	N - K	1969	0
D - Q	665	0	K - M	0	-1557

Lumber
Top chord: 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

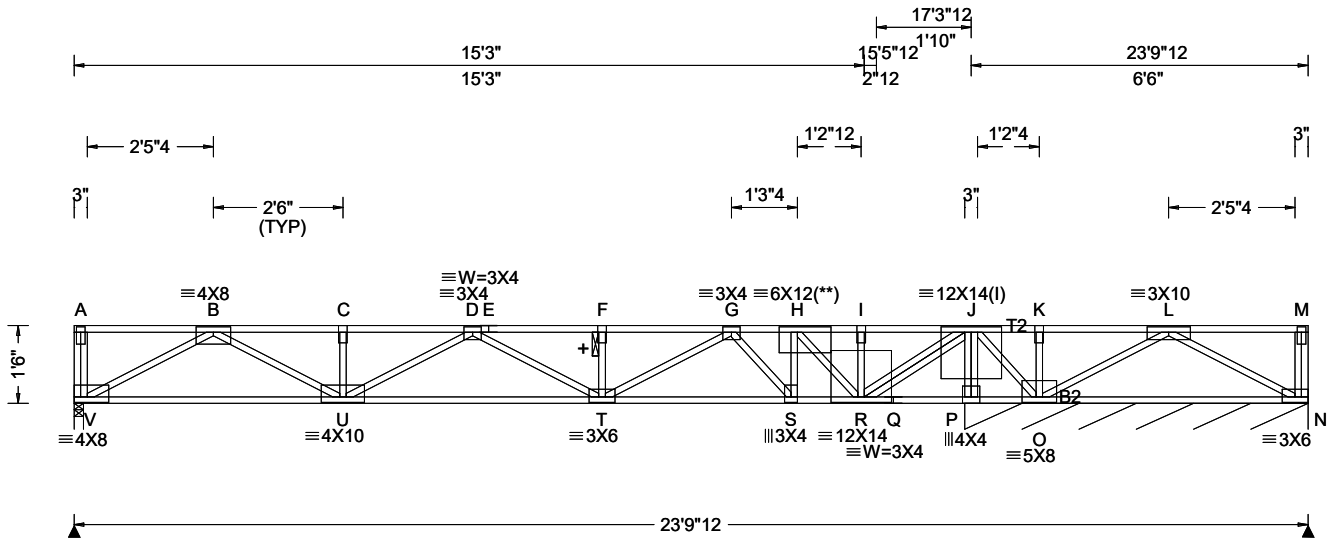
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96374 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F22	Cust: R 9316 JRef: 1XdW93160006 T2 / DrwNo: 075.22.1440.28972 / NDW 03/16/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.179 F 999 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.335 F 613 360
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.026 B - -
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.049 B - -
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.504
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.472
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: No	Max Web CSI: 0.548
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	
	I: NA GCpi: NA	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: NA		

Lumber

Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)

TC: From	87 plf at	0.00 to	87 plf at	23.81
BC: From	13 plf at	0.00 to	13 plf at	23.81

TC: 1500 lb Conc. Load at 13.90

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	441	/-	/-	/-	/-	/-
N		/-246				

V Brg Wid = 2.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2565	G - H	0	-2521
C - D	0	-2565	H - I	0	-698
D - E	0	-3256	I - J	0	-698
E - F	0	-3256	J - K	1825	0
F - G	0	-3256	K - L	1825	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1507	0	R - Q	0	-2561
U - T	3113	0	Q - P	0	-2561
T - S	2904	0	P - O	0	-2561
S - R	2477	0	O - N	0	-681

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1714	H - R	0	-2670
B - U	1208	0	R - J	3882	0
U - D	0	-625	J - P	0	-3088
T - G	402	0	J - O	1065	0
G - S	0	-598	O - L	0	-1307
S - H	486	0	L - N	779	0

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

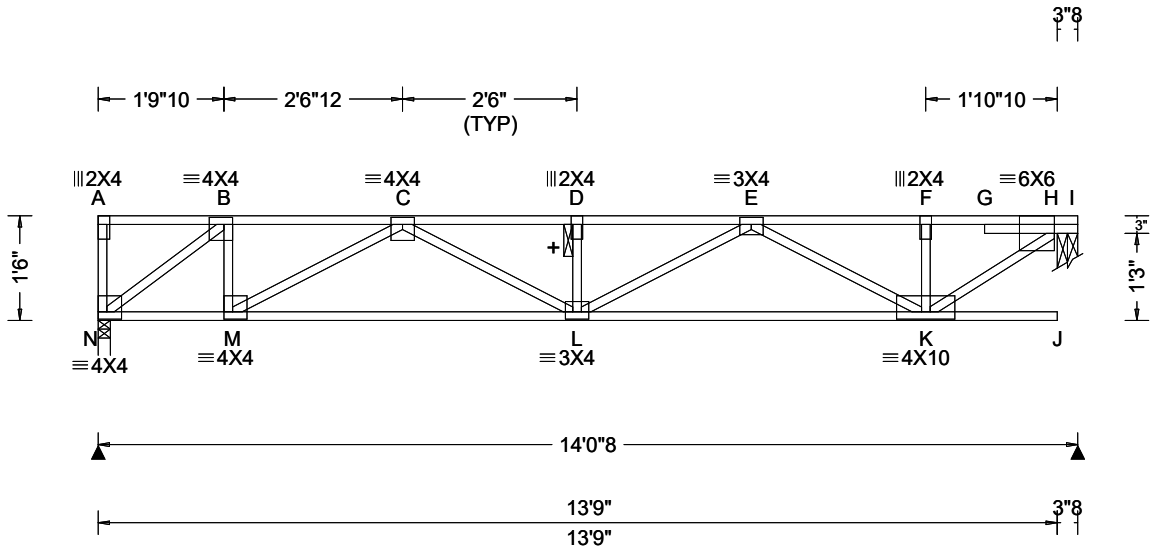
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96347 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F23	Cust: R 9316 JRef: 1XdW93160006 T25 / DrwNo: 075.22.1440.28195 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.092	D	999	480
VERT(CL): 0.172	D	970	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.029	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.613
Max BC CSI: 0.522
Max Web CSI: 0.325

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	694	/-	/-		/-	/-	/-
H	707	/-	/-		/-	/-	/-

N Brg Wid = 2.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-869	E - F	0	-931
C - D	0	-1793	F - H	0	-930
D - E	0	-1793			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	831	0	L - K	1548	0
M - L	1525	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1045	E - K	0	-704
B - M	425	0	K - H	1152	0
M - C	0	-752			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

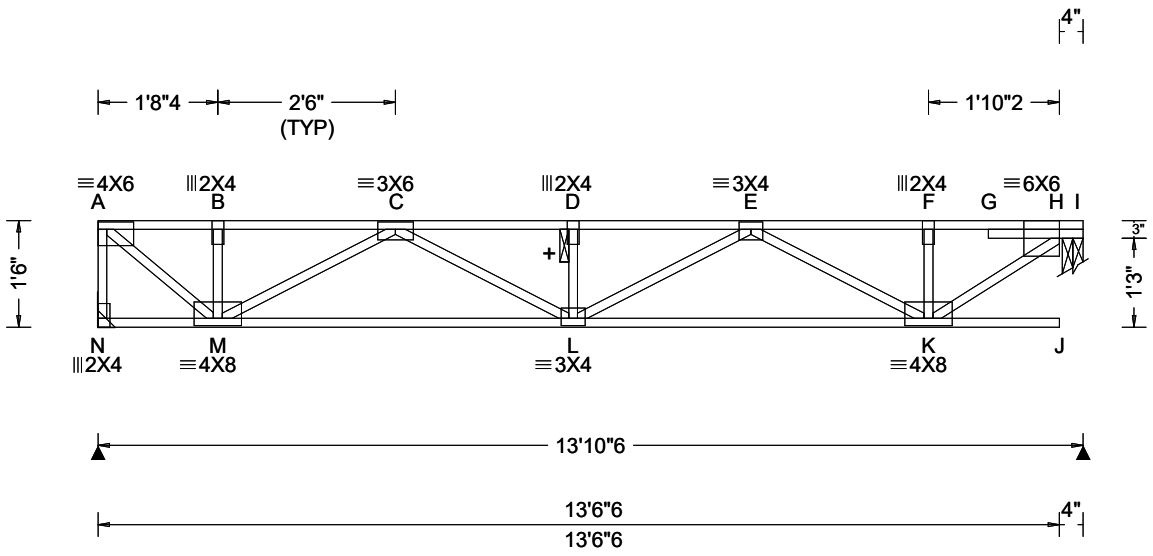
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96349 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F24	Cust: R 9316 JRef: 1XdW93160006 T3 / DrwNo: 075.22.1440.27794 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.090	D	999	480
VERT(CL): 0.167	D	982	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.604
Max BC CSI: 0.513
Max Web CSI: 0.320

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	685	/-	/-		/-	/-	/-
H	697	/-	/-		/-	/-	/-

N Brg Wid = - Min Req = -
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-776	D - E	0	-1749
B - C	0	-776	E - F	0	-917
C - D	0	-1749	F - H	0	-916

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1463	0	L - K	1518	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-684	E - K	0	-687
A - M	1001	0	K - H	1134	0
M - C	0	-784			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

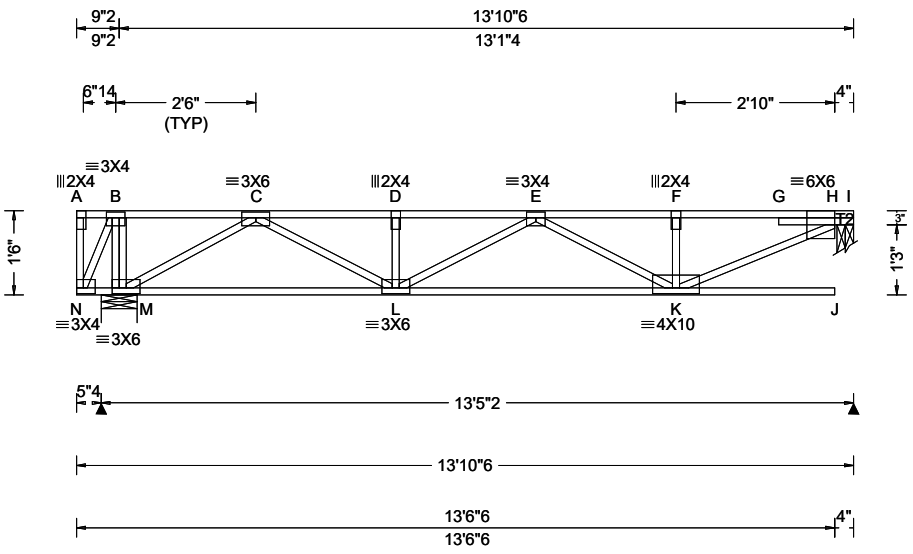
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96351 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F25	Cust: R 9316 JRef: 1XdW93160006 T11 / DrwNo: 075.22.1440.28576 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.197 J	784	480
VERT(CL):	0.316 J	488	360
HORZ(LL):	0.013 A	-	-
HORZ(TL):	0.024 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.609
Max BC CSI: 0.630
Max Web CSI: 0.367

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
M	729	/-	/-	/-	/-	/-
H	659	/-	/-	/-	/-	/-

M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-1447	E - F	0	-1177
D - E	0	-1447	F - H	0	-1178

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	912	0	L - K	1482	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	-1015	K - H	1301	0
C - L	614	0			

Lumber

Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

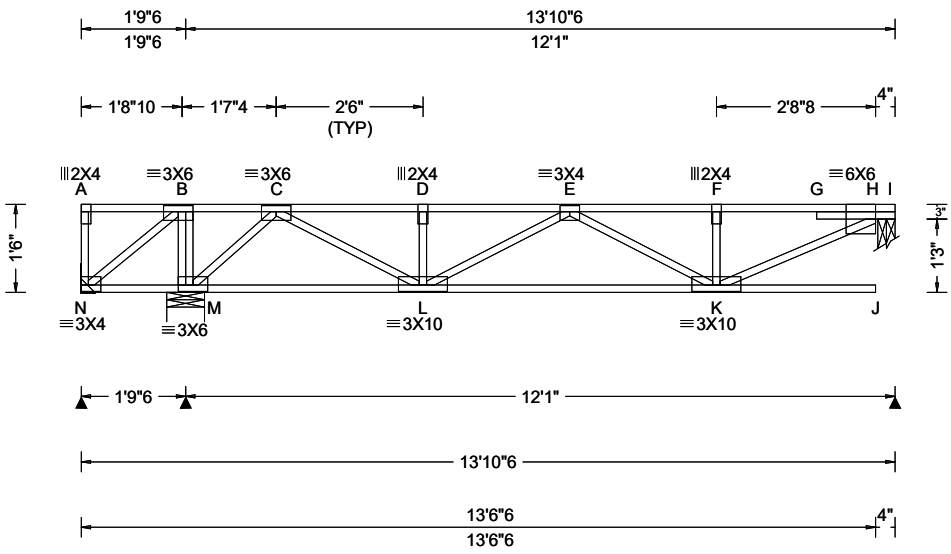
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96353 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F26	Cust: R 9316 JRef: 1XdW93160006 T5 / DrwNo: 075.22.1440.27861 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.158	J	897	480
VERT(CL): 0.249	J	570	360
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.284

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-358	/-	/-	/-	/-
M	1154	/-	/-	/-	/-	/-
H	547	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	510	0	E - F	0	-902
C - D	0	-819	F - H	0	-903
D - E	0	-819			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-465	L - K	1035	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	596	0	C - L	815	0
B - M	0	-533	K - H	1005	0
M - C	0	-843			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

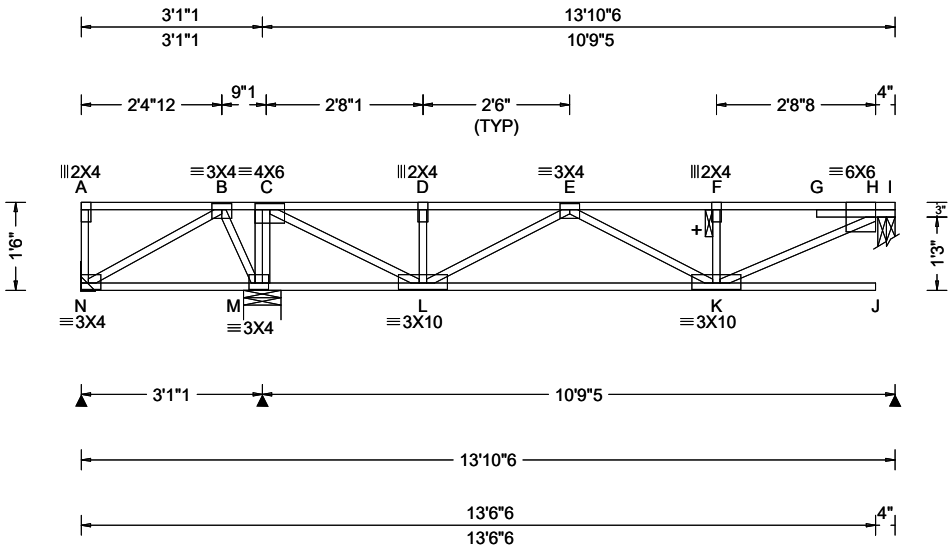
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96355 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F27	Cust: R 9316 JRef: 1XdW93160006 T9 / DrwNo: 075.22.1440.27819 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	869	480
VERT(CL): 0.233	J	549	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.748
Max BC CSI: 0.436
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
N	44 /-139	/-	/-	/-	/-	
M	963 /-	/-	/-	/-	/-	
H	491 /-	/-	/-	/-	/-	

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	427	0	E - F	0	-782
C - D	0	-495	F - H	0	-784
D - E	0	-495			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	815	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	-633	K - H	872	0
C - L	964	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

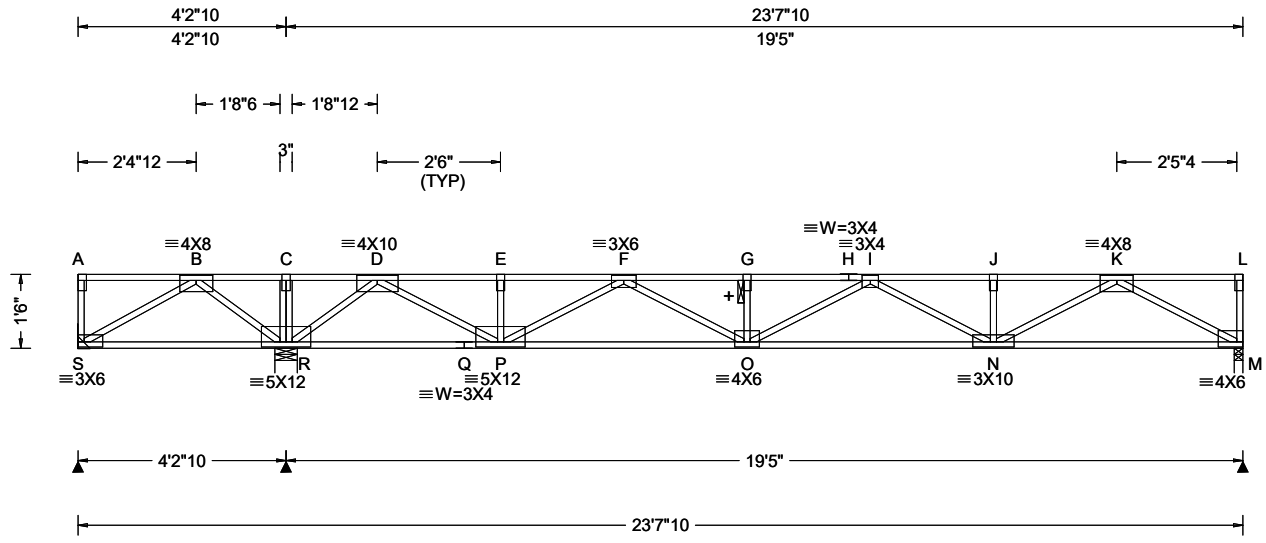
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96357 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F28	Cust: R 9316 JRef:1XdW93160006 T10 / DrwNo: 075.22.1440.27839 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.196	G	999	480
VERT(CL): 0.369	G	630	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.795
Max Web CSI: 0.467

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	-	/-490	/-	/-	/-	/-
R	1906	/-	/-	/-	/-	/-
M	843	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1763	0	G - H	0	-2527
C - D	1763	0	H - I	0	-2527
D - E	0	-1026	I - J	0	-2216
E - F	0	-1026	J - K	0	-2216
F - G	0	-2527			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	-944	P - O	1976	0
R - Q	0	-440	O - N	2573	0
Q - P	0	-440	N - M	1350	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1088	0	F - O	633	0
B - R	0	-1142	I - N	0	-408
R - D	0	-1649	N - K	988	0
D - P	1656	0	K - M	0	-1532
P - F	0	-1087			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -490# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

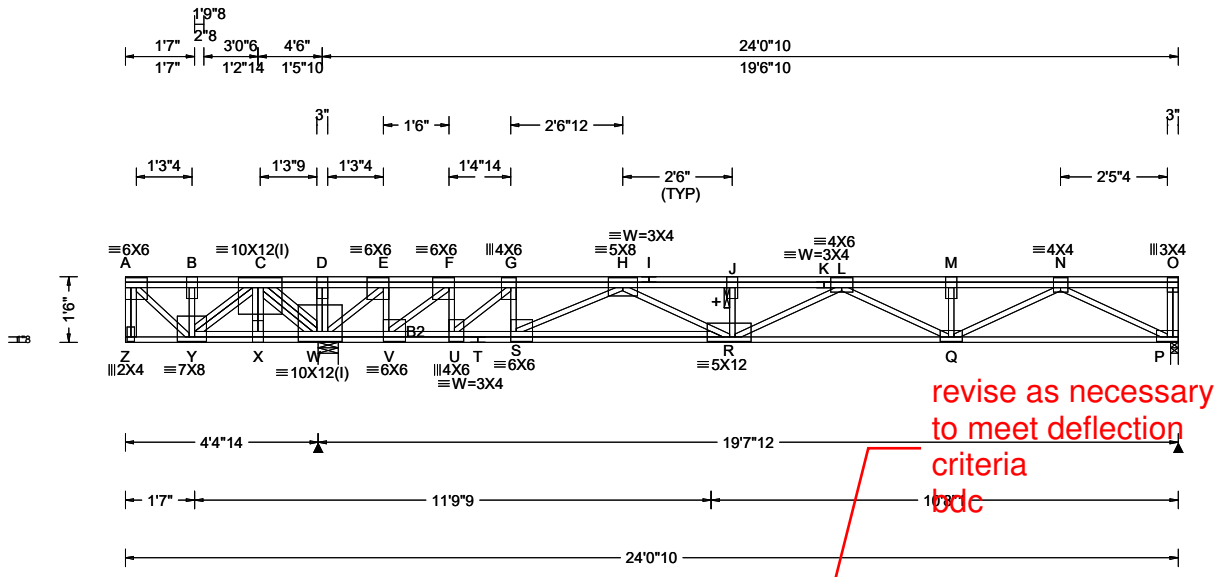
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96361 / SY42 FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** F28G	Cust: R 9316 JRef:1XdW93160006 T12 / DrwNo: 075.22.1440.27824 / NDW 03/16/2022

2 Complete Trusses Required



revise as necessary to meet deflection criteria bdc

Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.120 A 443 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.268 Z 198 360
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): -0.025 A - -
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.057 A - -
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.433
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.260
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: No	Max Web CSI: 0.271
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	
	I: NA GCpi: NA	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: NA		

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
W	8750 /-	/-	/-	/-	/-
P	618 /-243	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	597	0	H - I	1855	-383
B - C	597	0	I - J	1855	-383
C - D	5342	0	J - K	1853	-389
D - E	5337	0	K - L	1853	-389
E - F	4767	0	L - M	685	-689
F - G	4126	0	M - N	685	-689
G - H	3551	0			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	-1645	T - S	0	-3597
X - W	0	-1635	S - R	0	-2646
W - V	0	-4815	R - Q	647	-1215
V - U	0	-4178	Q - P	456	-296
U - T	0	-3597			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	-789	G - S	577	0
Y - C	1366	0	S - H	0	-1230
C - W	0	-5021	H - R	961	0
W - E	0	-1030	R - L	0	-716
E - V	677	0	L - Q	599	0
V - F	0	-1093	Q - N	264	-439
F - U	694	0	N - P	330	-495
U - G	0	-980			

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.05
BC: From 13 plf at 0.00 to 13 plf at 24.05
TC: 1129 lb Conc. Load at 0.12
TC: 5500 lb Conc. Load at 3.03

Plating Notes

All plates are 3X6 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

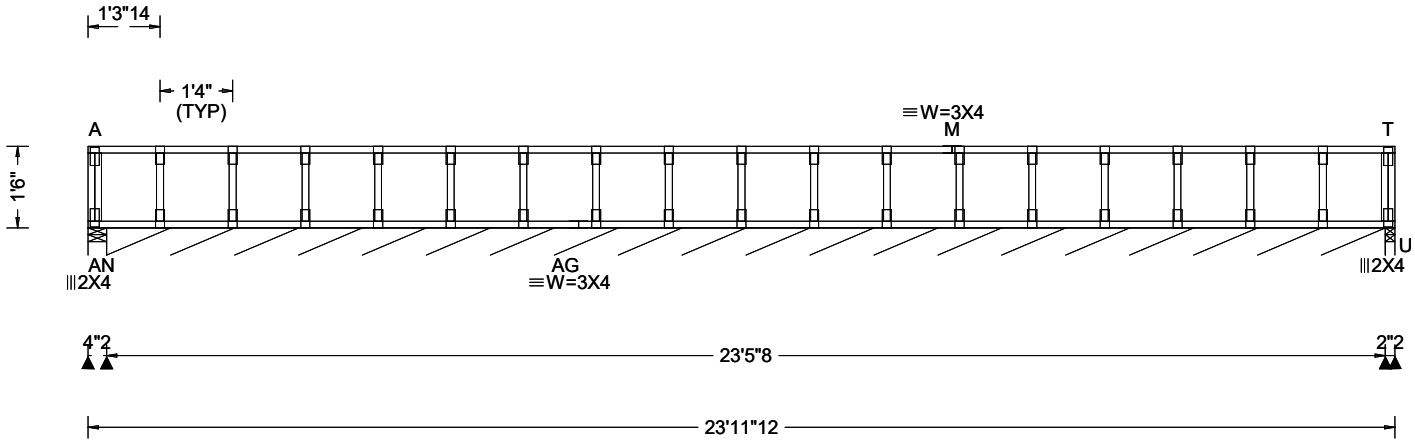
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96363 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** L11	Cust: R 9316 JRef: 1XdW93160006 T29 / DrwNo: 075.22.1440.28531 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	T	999	480
VERT(CL): 0.001	T	999	360
HORZ(LL): -0.003	B	-	-
HORZ(TL): 0.005	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.060
Max BC CSI: 0.013
Max Web CSI: 0.018

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AN	68 /-	/-	/-	/-	/-
AN*	97 /-	/-	/-	/-	/-
U	64 /-	/-	/-	/-	/-

AN Brg Wid = 4.1 Min Req = 1.5 (Truss)
AN Brg Wid = 281 Min Req = -
U Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AN, AN, & U are a rigid surface.
Members not listed have forces less than 375#

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing
Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 2X4 except as noted.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

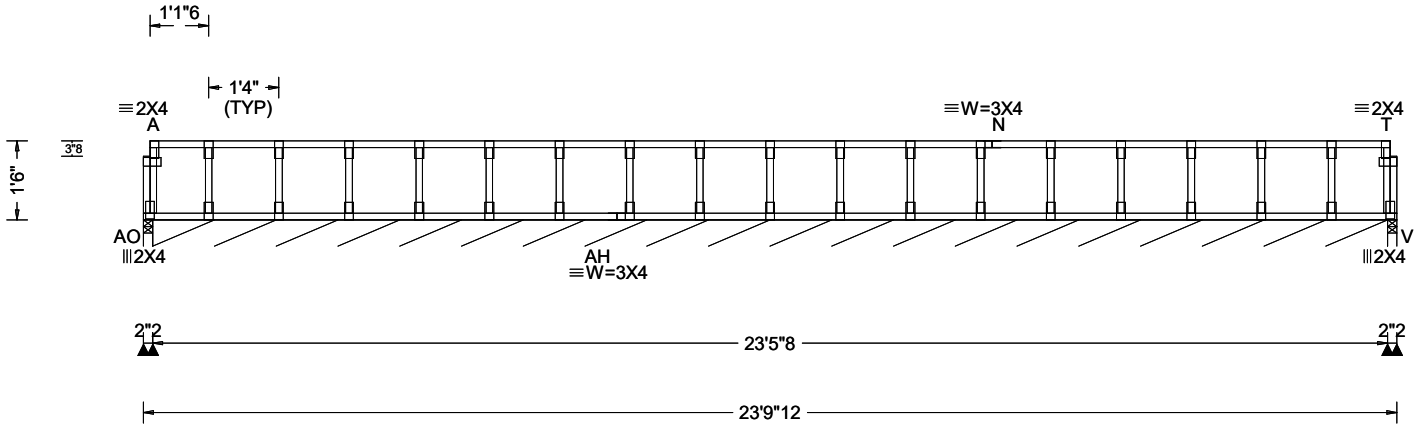
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96365 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220683 Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA **Truss Label:** L21	Cust: R 9316 JRef: 1XdW93160006 T30 / DrwNo: 075.22.1440.28683 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	T	999	480
VERT(CL): 0.000	T	999	360
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.057
Max BC CSI: 0.009
Max Web CSI: 0.018

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AO	48 /-	/-	/-	/-	/-
AO	*97 /-	/-	/-	/-	/-
V	48 /-	/-	/-	/-	/-

AO Brg Wid = 2.1 Min Req = 1.5 (Truss)
AO Brg Wid = 281 Min Req = -
V Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AO, AO, & V are a rigid surface.
Members not listed have forces less than 375#

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing
Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 2X4 except as noted.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

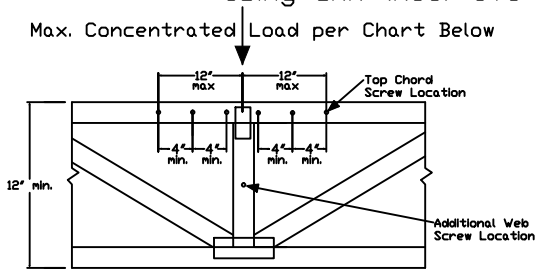
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.

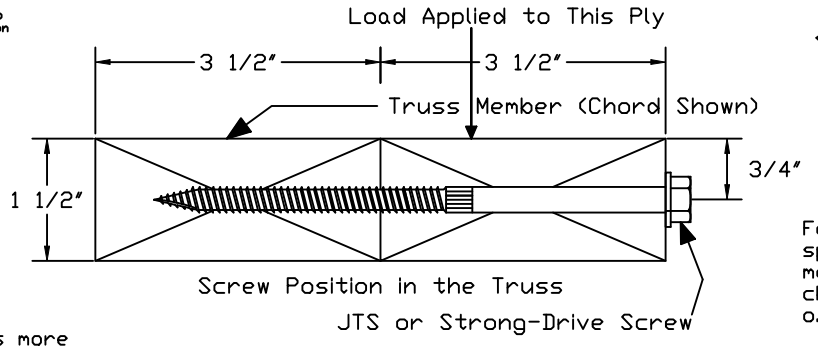


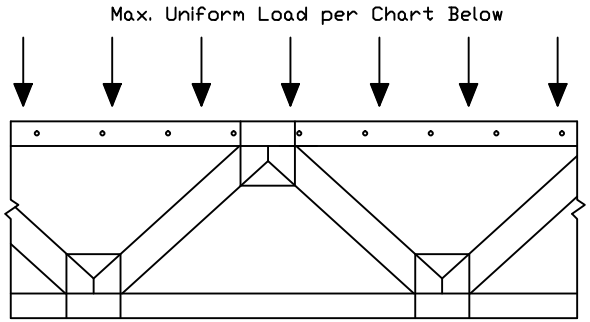
Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

Refer to Alpine sealed drawing for individual truss design.





For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	[illegible]	294	266
20	[illegible]	[illegible]	240
22	[illegible]	241	218
24	237	[illegible]	200

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, MO 63045

03/16/2022

TC LL	Connection
TC DL	DATE /2018
BC DL	SY42PL0118
BC LL	
TOT. LD.	
DUR. FAC.	1.00
SPACING	

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considered less than the design dead load.

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, MO 63045

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

EC/CAMB
DATE /14
LCAMB1014

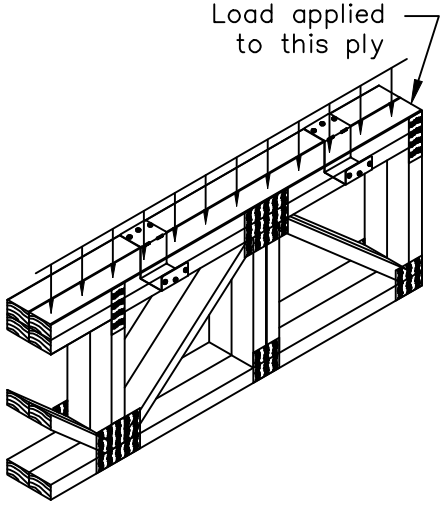
03/16/2022

Building 4

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL

FOR DOWNWARD LOADS ONLY

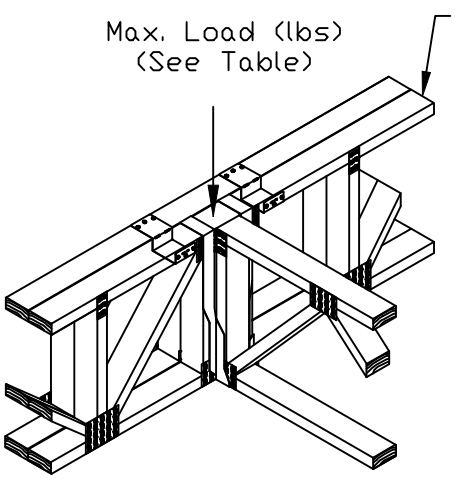
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application



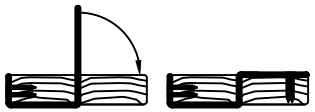
Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

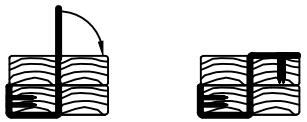
Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.

2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, MO 63045

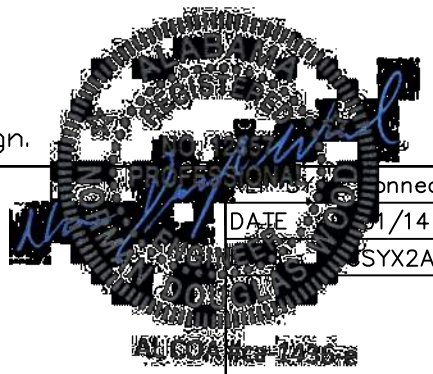
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

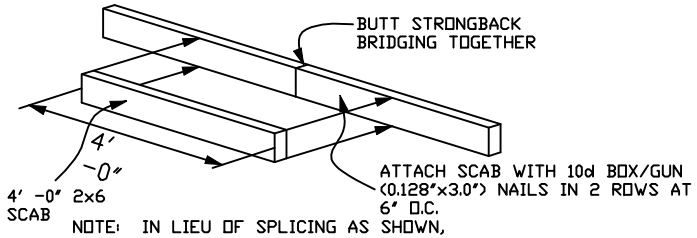
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org



onnection
DATE 1/14
SYX2A1014
DUR. FAC. ALL

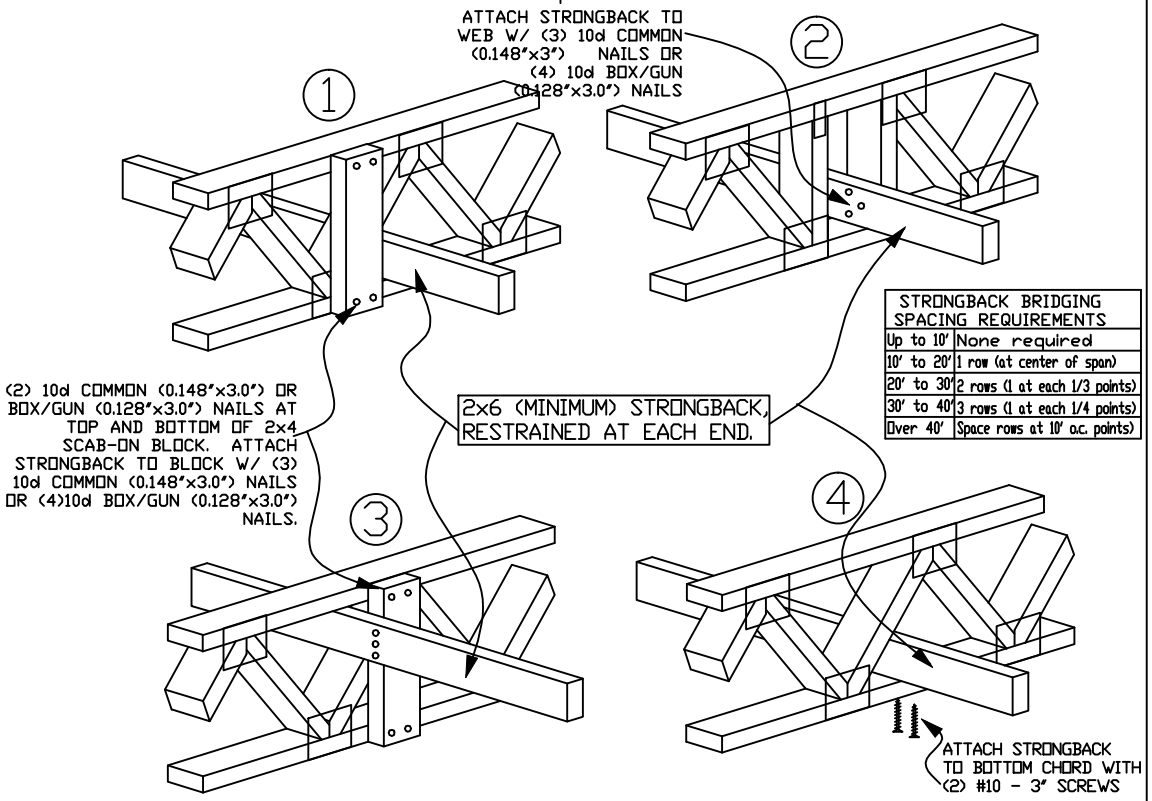
Building 4

STRONGBACK BRIDGING RECOMMENDATIONS



STRONGBACK BRIDGING SPLICE DETAIL

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING SPACING REQUIREMENTS	
Up to 10'	None required
10' to 20'	1 row (at center of span)
20' to 30'	2 rows (1 at each 1/3 points)
30' to 40'	3 rows (1 at each 1/4 points)
Over 40'	Space rows at 10' o.c. points)

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

- All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, MO 63045

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

TC LL	NGBACK
TC DL	DATE 14
BC DL	RIBR1014
BC LL	
TOT. LD.	
DUR. FAC.	1.00
SPACING	

03/16/2022

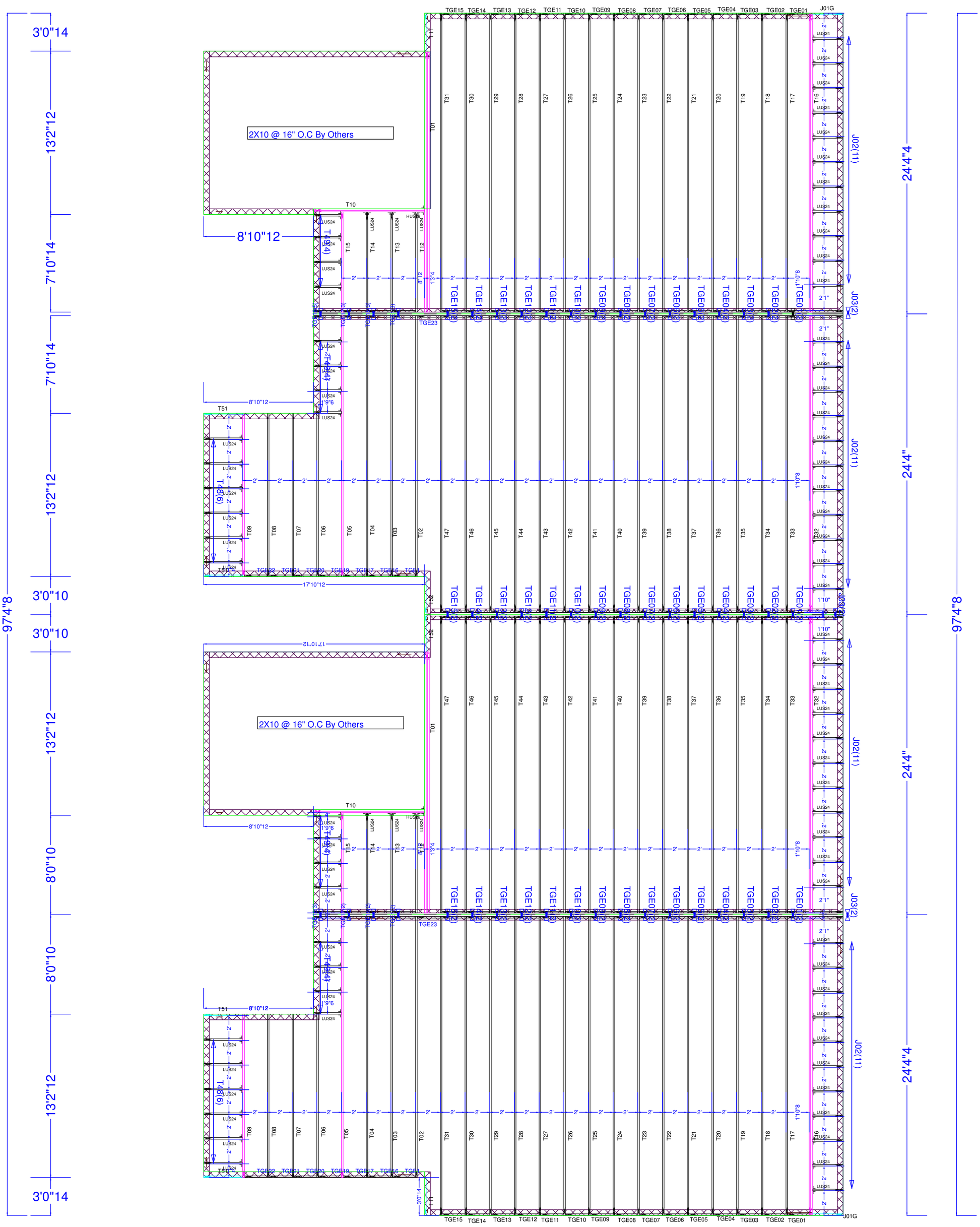
Group 4 Roof Layout

Total Truss Quantity = 349.

Total Plan Area with OHs = 4539 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
=	HUS26	2	Simpson
=	LUS24	78	Simpson



DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

mill Creek
3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-6108

Job Name: McCambridge Brothers Construction

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

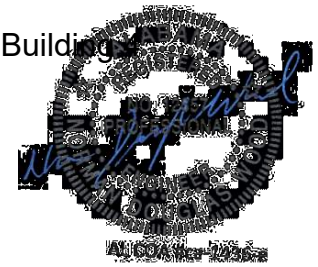
Designer: Juan R Quiroz

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

Reference #: JB-220684

Date: 3/17/2022

Building



Alpine, an ITW company
514 Earth City Expressway
Suite 242
Earth City, MO 63045
Phone: (800)326-4102 (314)344-9121
alpineitw.com

Site Information:	**Page 1:**
Customer: Mill Creek Truss	*Job Number:* JB-220684
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

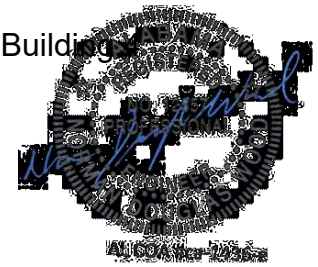
Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1XdW93160007
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 109 *Building Type:* Closed	*Design Loading (psf):* 40.00

This package contains general notes pages, 78 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	075.22.1440.33143	J01G	2	075.22.1440.35179	J02
3	075.22.1440.33162	J03	4	075.22.1521.48620	T01
5	075.22.1440.29095	T02	6	075.22.1440.30721	T03
7	075.22.1440.34727	T04	8	075.22.1440.34193	T05
9	075.22.1440.31216	T06	10	075.22.1440.29111	T07
11	075.22.1440.35093	T08	12	075.22.1440.33367	T09
13	075.22.1521.47363	T10	14	075.22.1440.33850	T11
15	075.22.1440.31272	T12	16	075.22.1440.32716	T13
17	075.22.1440.34316	T14	18	075.22.1440.34595	T15
19	075.22.1440.34429	T16	20	075.22.1440.31781	T17
21	075.22.1440.29872	T18	22	075.22.1440.34454	T19
23	075.22.1440.28988	T20	24	075.22.1440.33730	T21
25	075.22.1440.32784	T22	26	075.22.1440.31551	T23
27	075.22.1440.34596	T24	28	075.22.1440.29692	T25
29	075.22.1440.30017	T26	30	075.22.1440.29507	T27
31	075.22.1440.34610	T28	32	075.22.1440.30769	T29
33	075.22.1440.33294	T30	34	075.22.1440.33943	T31
35	075.22.1440.30364	T32	36	075.22.1440.30443	T33
37	075.22.1440.32994	T34	38	075.22.1440.32777	T35
39	075.22.1440.30297	T36	40	075.22.1440.31474	T37
41	075.22.1440.32697	T38	42	075.22.1440.31063	T39
43	075.22.1440.29980	T40	44	075.22.1440.34961	T41
45	075.22.1440.29211	T42	46	075.22.1440.33902	T43
47	075.22.1440.35317	T44	48	075.22.1440.31869	T45
49	075.22.1440.30934	T46	50	075.22.1440.31548	T47

Printed 3/16/2022 3:28:21 PM

Building



Alpine, an ITW company
514 Earth City Expressway
Suite 242
Earth City, MO 63045
Phone: (800)326-4102 (314)344-9121
alpineitw.com

Site Information:	Page 2:
Customer: Mill Creek Truss	*Job Number:* JB-220684
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	075.22.1440.29696	T48
53	075.22.1440.33463	T51
55	075.22.1440.34918	TGE01
57	075.22.1440.30991	TGE02
59	075.22.1440.29850	TGE04
61	075.22.1440.31105	TGE06
63	075.22.1440.33820	TGE08
65	075.22.1440.32590	TGE10
67	075.22.1440.30433	TGE12
69	075.22.1440.34594	TGE14
71	075.22.1440.31786	TGE16
73	075.22.1440.29251	TGE18
75	075.22.1521.48628	TGE20
77	075.22.1527.41610	TGE22
79	A11530ENC160118	
81	DEFLCAMB1014	
83	GBLLETIN0118	

Item	Drawing Number	Truss
52	075.22.1440.32173	T49
54	075.22.1521.48610	T52
56	075.22.1440.34462	TGE1
58	075.22.1440.32095	TGE03
60	075.22.1440.32578	TGE05
62	075.22.1440.29420	TGE07
64	075.22.1440.35362	TGE09
66	075.22.1440.29774	TGE11
68	075.22.1440.30567	TGE13
70	075.22.1440.30257	TGE15
72	075.22.1440.33562	TGE17
74	075.22.1521.48614	TGE19
76	075.22.1527.41609	TGE21
78	075.22.1440.29563	TGE23
80	BRCLBSUB0119	
82	GABRST160118	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

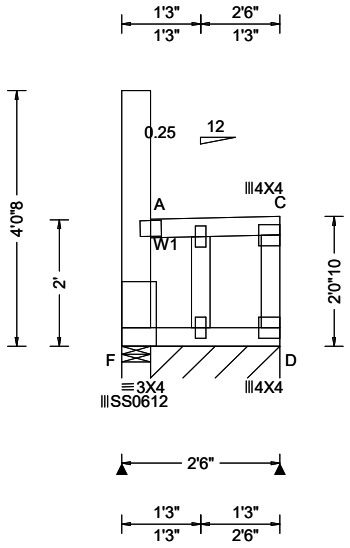
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 4

SEQN: 96145 / GABL FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J01G	Cust: R 9316 JRef: 1XdW93160007 T208 DrwNo: 075.22.1440.33143 / NDW 03/16/2022



15psf, typical all roof trusses
bdc

Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
18SS, WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	A	999	360
VERT(CL): 0.007	A	999	240
HORZ(LL): 0.092	A	-	-
HORZ(TL): 0.105	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.129
Max BC CSI: 0.373
Max Web CSI: 0.164

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	24	/-	/-	/117	/146	/99
D*	86	/-	/-	/111	/58	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 24.5 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 2X4 except as noted.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Snow loading based on an unobstructed roof. Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

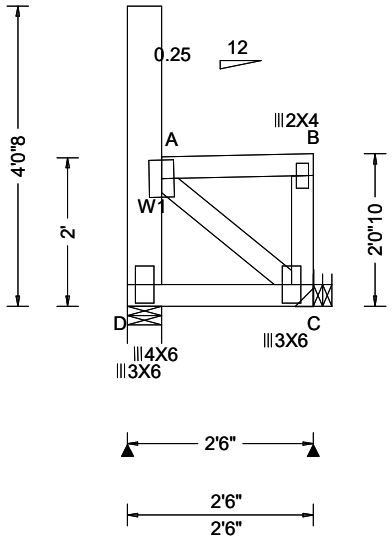
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96147 / MONO FROM:	Ply: 1 Qty: 44	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02	Cust: R 9316 JRef: 1XdW93160007 T218 DrwNo: 075.22.1440.35179 / NDW 03/16/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.70 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.000 B 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.091 Max BC CSI: 0.040 Max Web CSI: 0.131 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	88	/-	/-	/93	/80	/91
C	111	/-	/-	/133	/64	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
A - C	240	-390

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

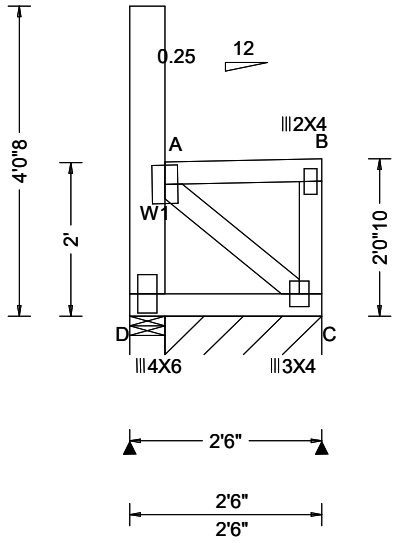
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96149 / MONO FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J03	Cust: R 9316 JRef: 1XdW93160007 T135 DrwNo: 075.22.1440.33162 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.091
Max BC CSI: 0.041
Max Web CSI: 0.106

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	88	/-	/-	/102	/86	/99
C*	54	/-	/-	/66	/34	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = 24.5 Min Req = -
Bearings D & D are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

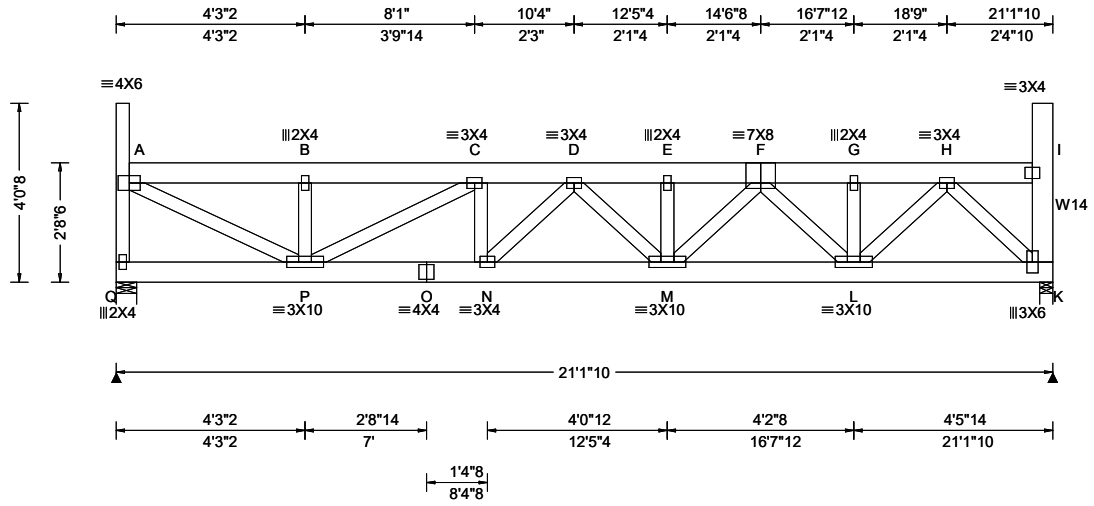
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96151 / FLAT FROM:	Ply: 3 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T01	Cust: R 9316 JRef: 1XdW93160007 T2 / DrwNo: 075.22.1521.48620 / NDW 03/16/2022

3 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.035 D	999	360
VERT(CL):	0.070 D	999	240
HORZ(LL):	0.008 K	-	-
HORZ(TL):	0.016 K	-	-

Creep Factor: 2.0
Max TC CSI: 0.030
Max BC CSI: 0.181
Max Web CSI: 0.182

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	1230	/-	/-	/-	/123	/-
K	1447	/-	/-	/-	/156	/-

Wind reactions based on MWFRS
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
K Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings Q & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	73	-690	E - F	164	-1389
B - C	72	-687	F - G	98	-868
C - D	123	-1119	G - H	98	-868
D - E	164	-1389			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	1096	-121	M - L	1154	-136
O - N	1096	-121	L - K	485	-57
N - M	1272	-147			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - A	45	-395	F - L	56	-419
A - P	740	-78	L - H	558	-59
P - C	56	-473	H - K	78	-659

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	60 plf at	0.29 to	60 plf at	20.68	
BC: From	20 plf at	0.00 to	20 plf at	21.14	

BC: 1031 lb Conc. Load at 12.90

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.39	1.34	13.80	3.32
20.68	0.00	20.39	1.34	13.80	3.32

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

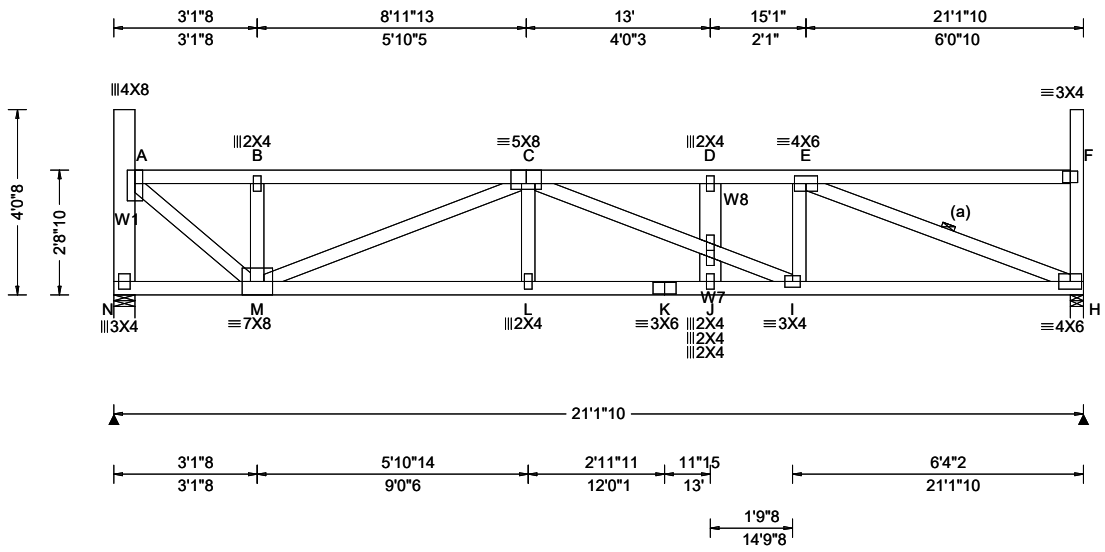
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96153 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T02	Cust: R 9316 JRef: 1XdW93160007 T165 DrwNo: 075.22.1440.29095 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.097	D	999	360
VERT(CL): 0.188	D	999	240
HORZ(LL): 0.029	H	-	-
HORZ(TL): 0.055	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.388
Max BC CSI: 0.554
Max Web CSI: 0.694

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	857	/-	/-	/433	/77	/121
H	868	/-	/-	/436	/79	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	137	- 1050	C - D	147	- 1704
B - C	137	- 1047	D - E	147	- 1704

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1963	- 237	J - I	1963	- 237
L - K	1963	- 237	I - H	1671	- 164
K - J	1963	- 237			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	82	- 838	M - C	127	- 990
A - M	1249	- 123	E - H	176	- 1770

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.32	13.12	3.16
20.84	0.00	20.39	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof. Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

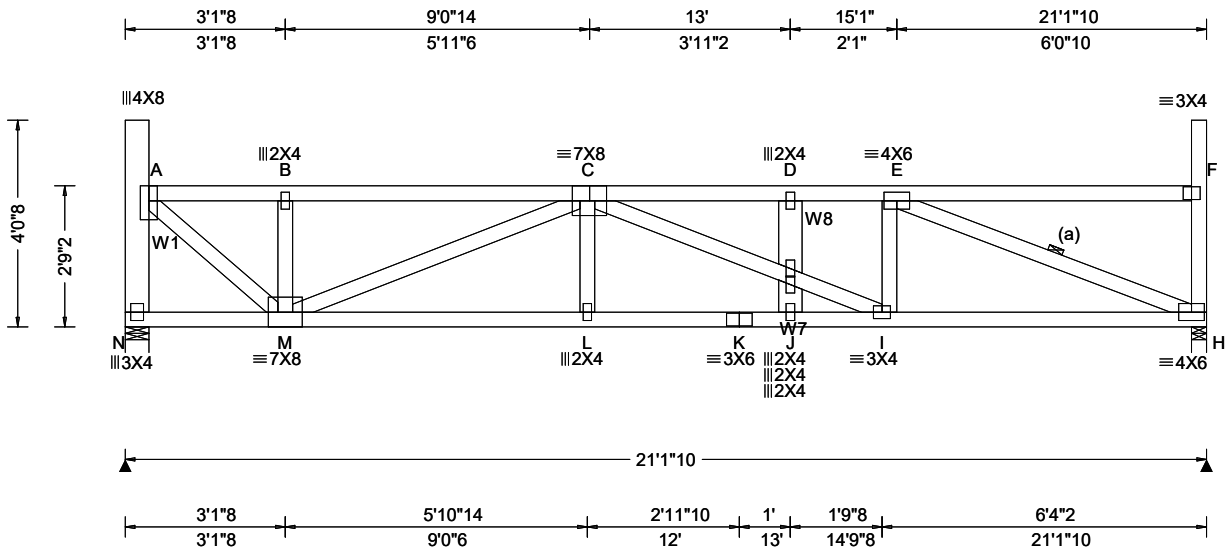
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96155 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T03	Cust: R 9316 JRef: 1XdW93160007 T168 DrwNo: 075.22.1440.30721 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.095	D	999	360
VERT(CL): 0.183	D	999	240
HORZ(LL): 0.028	H	-	-
HORZ(TL): 0.054	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.388
Max BC CSI: 0.549
Max Web CSI: 0.690

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	859	/-	/-	/433	/78	/120
H	869	/-	/-	/436	/80	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	135	- 1034	C - D	146	- 1679
B - C	135	- 1031	D - E	146	- 1679

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1936	- 235	J - I	1936	- 235
L - K	1936	- 235	I - H	1647	- 163
K - J	1936	- 235			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	82	- 840	M - C	126	- 981
A - M	1239	- 123	E - H	175	- 1748

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.28	11.74	2.83
20.84	0.00	20.39	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof. Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

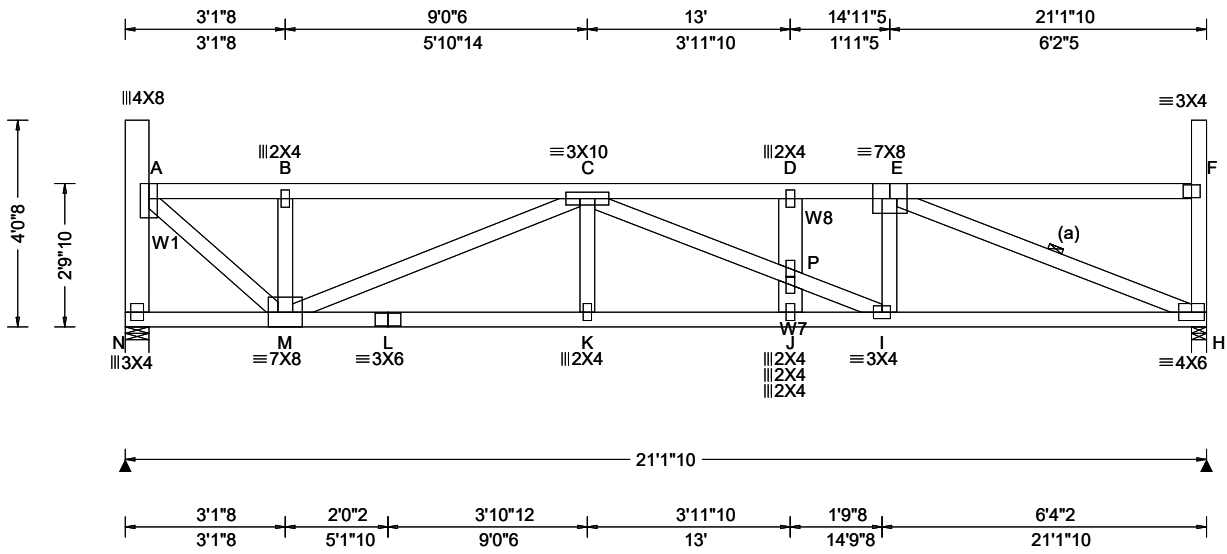
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96157 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T04	Cust: R 9316 JRef: 1XdW93160007 T134 DrwNo: 075.22.1440.34727 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.092	D	999	360
VERT(CL): 0.170	D	999	240
HORZ(LL): 0.028	H	-	-
HORZ(TL): 0.053	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.394
Max BC CSI: 0.545
Max Web CSI: 0.687

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	859	/-	/-	/433	/78	/119
H	869	/-	/-	/436	/80	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	132	- 1016	C - D	168	- 1649
B - C	132	- 1014	D - E	168	- 1649

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1907	- 233	J - I	1907	- 233
L - K	1907	- 233	I - H	1616	- 161
K - J	1907	- 233			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	82	- 840	P - I	92	- 439
A - M	1225	- 121	I - E	378	- 3
M - C	124	- 971	E - H	172	- 1720
C - P	91	- 421			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.24	10.35	2.50
20.84	0.00	20.39	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

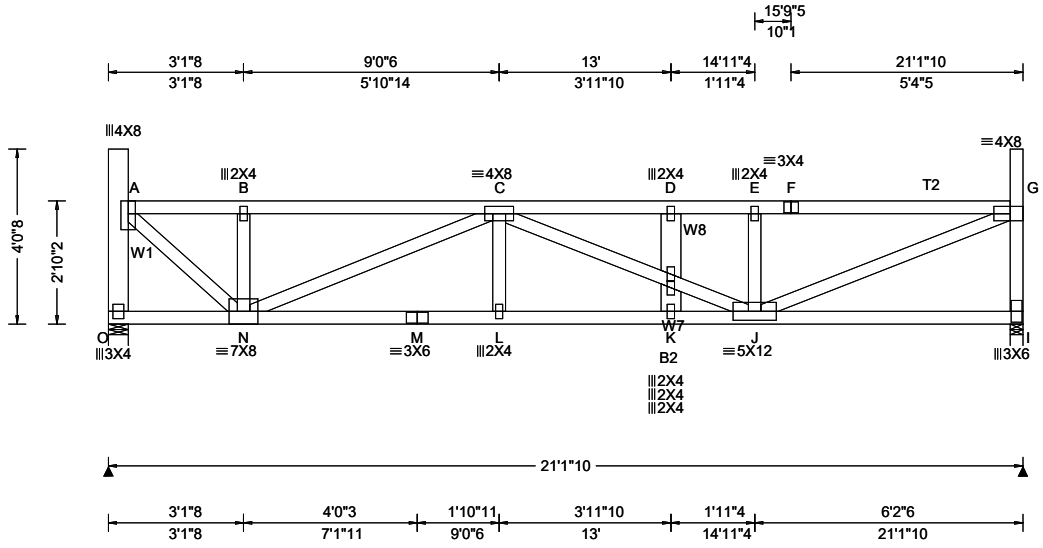
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96159 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T05	Cust: R 9316 JRef: 1XdW93160007 T167 DrwNo: 075.22.1440.34193 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.094 D	999	360
VERT(CL):	0.182 D	999	240
HORZ(LL):	0.021 A	-	-
HORZ(TL):	0.042 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.477
Max BC CSI: 0.592
Max Web CSI: 0.775

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
O	887 /-	/-	/-	/124	/-
I	1033 /-	/-	/-	/273	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	153	- 1036	D - E	485	- 1927
B - C	152	- 1033	E - F	485	- 1924
C - D	485	- 1927	F - G	486	- 1932

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	2034	- 364	L - K	2034	- 364
M - L	2034	- 364	K - J	2034	- 364

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	130	- 868	J - G	2003	- 502
A - N	1256	- 185	G - I	233	- 933
N - C	230	- 1090			

Lumber

Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	60 plf at	0.46 to	60 plf at	20.84	
BC: From	20 plf at	0.00 to	20 plf at	13.29	
BC: From	10 plf at	13.29 to	10 plf at	21.14	
BC:	88 lb Conc. Load at 13.29,15.07,17.07,19.07				

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.20	8.97	2.16
20.84	0.00	20.39	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

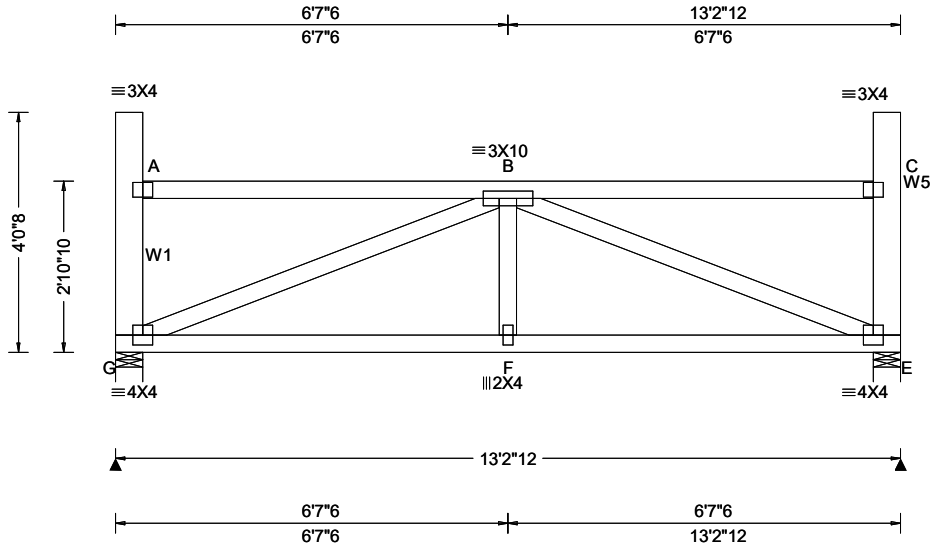
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96161 / SPEC FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T06	Cust: R 9316 JRef: 1XdW93160007 T149 DrwNo: 075.22.1440.31216 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.027 F	999	360
VERT(CL):	0.052 F	999	240
HORZ(LL):	0.009 E	-	-
HORZ(TL):	0.018 E	-	-

Creep Factor: 2.0
Max TC CSI: 0.512
Max BC CSI: 0.328
Max Web CSI: 0.694

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	526	/-	/-	/280	/59	/116
E	526	/-	/-	/280	/59	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	848	- 166	F - E	848	- 166

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	179	- 868	B - E	176	- 868

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.59	1.83
12.77	0.00	20.00	1.16	7.59	1.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

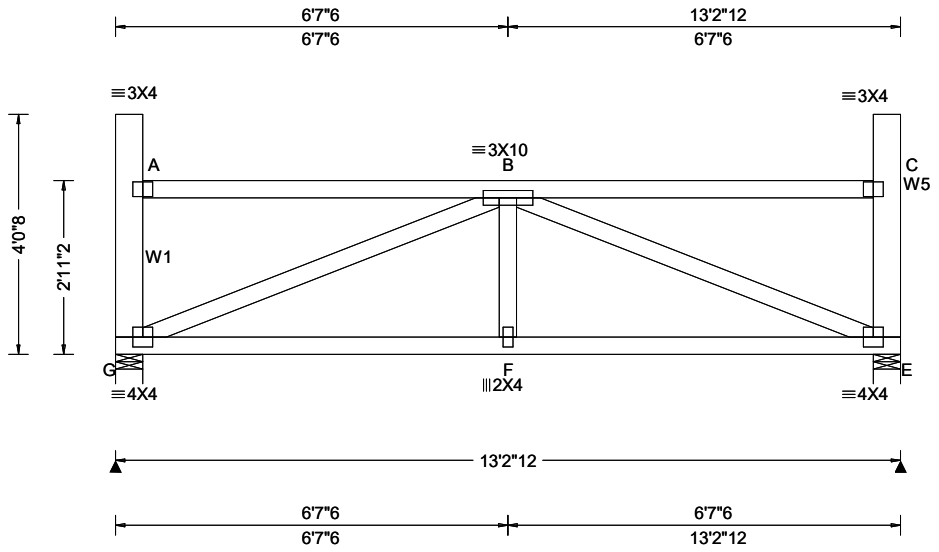
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96163 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T07	Cust: R 9316 JRef: 1XdW93160007 T146 DrwNo: 075.22.1440.29111 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.026 F	999	360
VERT(CL):	0.050 F	999	240
HORZ(LL):	0.009 E	-	-
HORZ(TL):	0.018 E	-	-

Creep Factor: 2.0
Max TC CSI: 0.512
Max BC CSI: 0.326
Max Web CSI: 0.688

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	526	/-	/-	/280	/59	/115
E	526	/-	/-	/280	/59	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	835	- 164	F - E	835	- 164

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	175	- 857	B - E	173	- 857

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.11	6.20	1.50
12.77	0.00	20.00	1.11	6.20	1.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

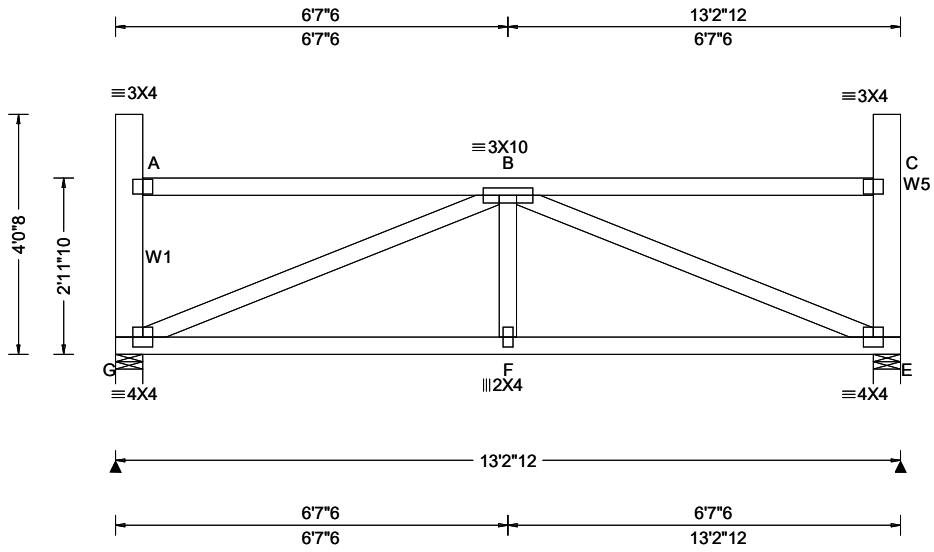
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96165 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T08	Cust: R 9316 JRef: 1XdW93160007 T150 DrwNo: 075.22.1440.35093 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.025 F	999	360
VERT(CL):	0.049 F	999	240
HORZ(LL):	0.009 E	-	-
HORZ(TL):	0.018 E	-	-

Creep Factor: 2.0
Max TC CSI: 0.513
Max BC CSI: 0.323
Max Web CSI: 0.682

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	526	/-	/-	/279	/59	/114
E	526	/-	/-	/279	/59	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	822	- 162	F - E	822	- 162

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	171	- 845	B - E	169	- 845

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof. Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

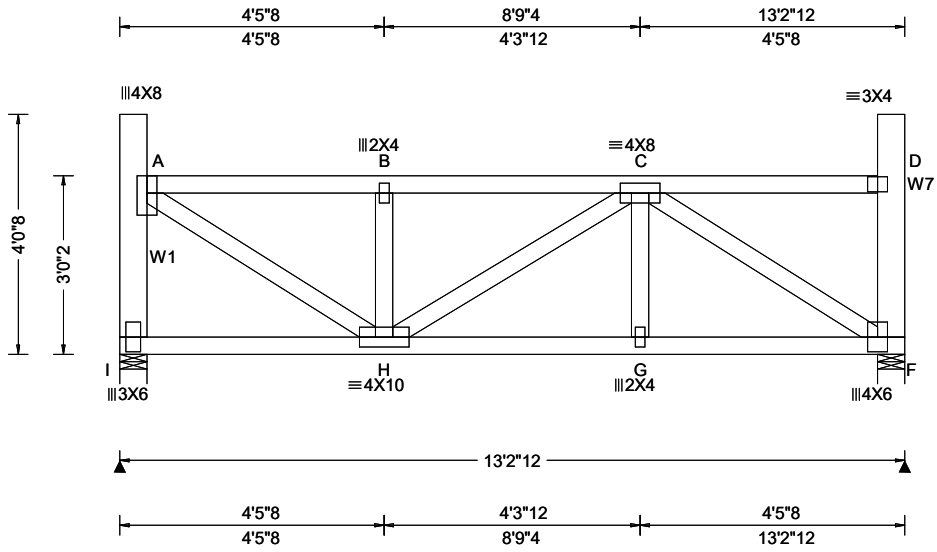
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96167 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T09	Cust: R 9316 JRef: 1XdW93160007 T170 DrwNo: 075.22.1440.33367 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.024 G	999	360
VERT(CL):	0.044 G	999	240
HORZ(LL):	0.008 F	-	-
HORZ(TL):	0.015 F	-	-

Creep Factor: 2.0
Max TC CSI: 0.223
Max BC CSI: 0.520
Max Web CSI: 0.487

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
I	835 /-	/-	/-	/213	/-
F	784 /-	/-	/-	/194	/-

Wind reactions based on MWFRS
I Brg Wid = 5.5 Min Req = 1.5 (Truss)
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings I & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	264	- 1032	B - C	263	- 1028

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	1020	- 261	G - F	1020	- 261

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - A	179	- 703	C - F	297	- 1162
A - H	1117	- 286			

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 60 plf at 0.46 to 60 plf at 12.77
BC: From 10 plf at 0.00 to 10 plf at 13.23
BC: 125 lb Conc. Load at 1.17, 3.17, 5.17, 7.17 9.17,11.17

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

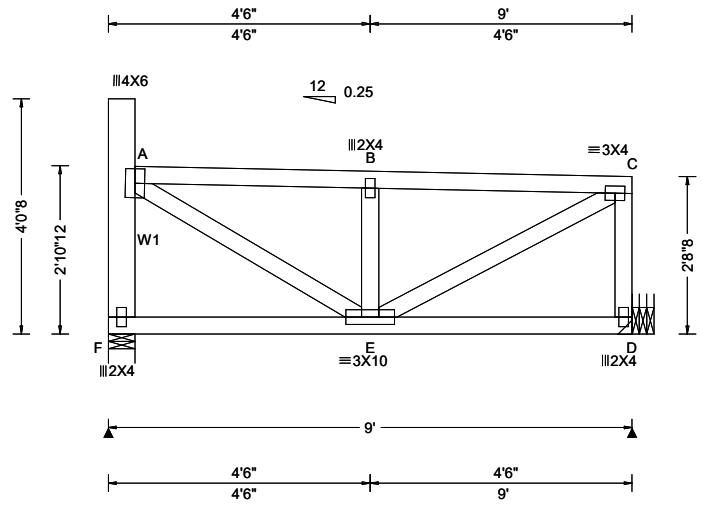
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96169 / MONO FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T10	Cust: R 9316 JRef: 1XdW93160007 T1 / DrwNo: 075.22.1521.47363 / NDW 03/16/2022

2 Complete Trusses Required



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.009 B 999 360
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.018 B 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 A - -
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.004 A - -
NCBCLL: 0.00	Mean Height: 22.46 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.120
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.287
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.150
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 29.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	861	/-	/-	/-	/185	/-
D	1031	/-	/-	/-	/159	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = - Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	104	-550	B - C	104	-550

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - E	582	-106	E - C	613	-117

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 6.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	30 plf at	0.46 to	30 plf at	9.00	
BC: From	20 plf at	0.00 to	20 plf at	2.33	
BC: From	10 plf at	2.33 to	10 plf at	9.00	
BC:	501 lb Conc. Load at	2.33			
BC:	340 lb Conc. Load at	4.33, 6.33, 8.33			

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.84

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

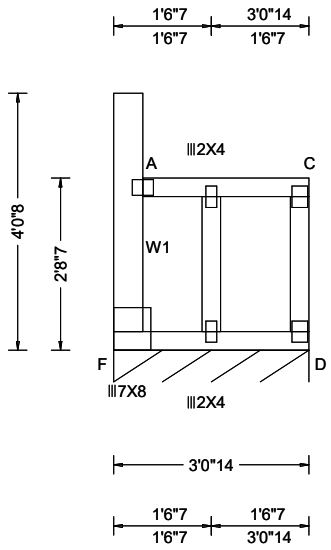
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96171 / GABL FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T11	Cust: R 9316 JRef: 1XdW93160007 T187 DrwNo: 075.22.1440.33850 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.007 A	999	360
VERT(CL):	0.009 A	999	240
HORZ(LL):	0.117 A	-	-
HORZ(TL):	0.136 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.116
Max BC CSI: 0.326
Max Web CSI: 0.142

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	74	/-	/-	/37	/5	/30

Wind reactions based on MWFRS
D Brg Wid = 36.9 Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.34	13.63	2.61

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Snow loading based on an unobstructed roof. Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

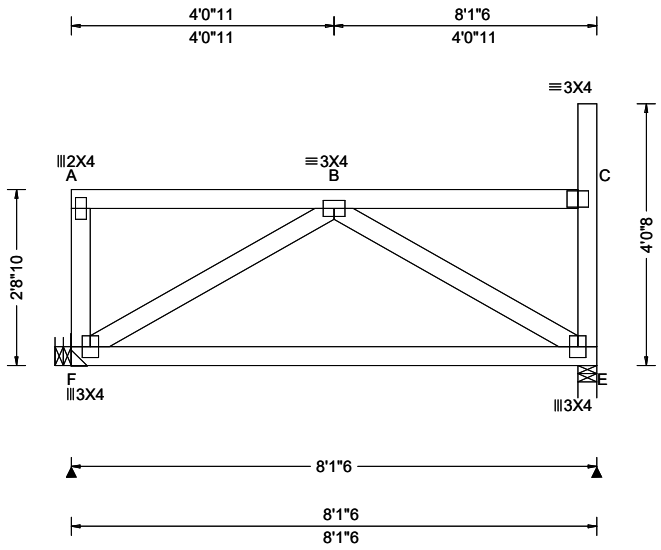
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96173 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T12	Cust: R 9316 JRef: 1XdW93160007 T110 DrwNo: 075.22.1440.31272 / NDW 03/16/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.004 B 999 360
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 B 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.004 E - -
NCBCLL: 0.00	Mean Height: 22.39 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.199
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.364
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.148
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	340	/-	/-	/189	/46	/93
E	322	/-	/-	/177	/47	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

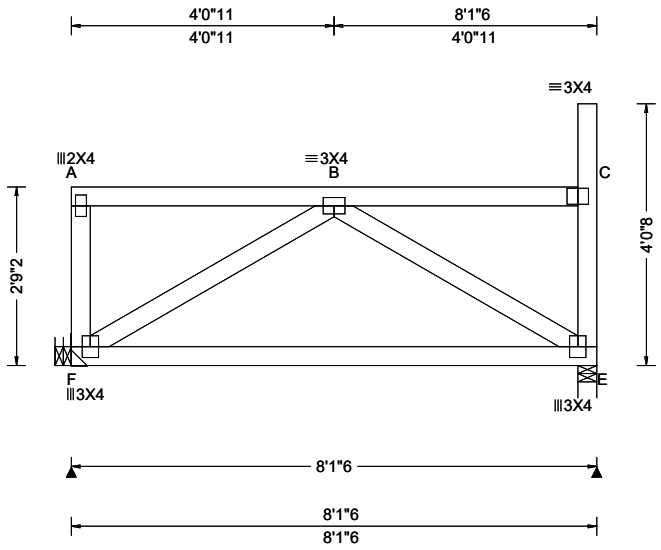
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96175 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T13	Cust: R 9316 JRef: 1XdW93160007 T229 DrwNo: 075.22.1440.32716 / NDW 03/16/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.004 B 999 360
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.007 B 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.004 E - -
NCBCLL: 0.00	Mean Height: 22.43 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.199
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.362
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.140
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	340	/-	/-	/189	/46	/92
E	322	/-	/-	/177	/47	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

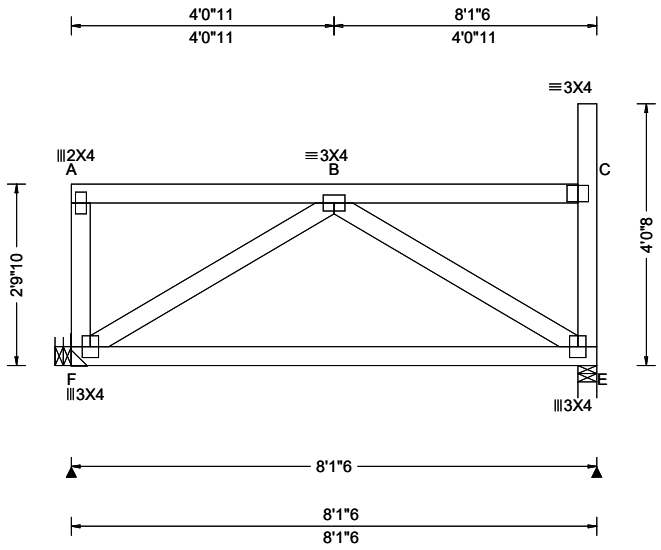
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96177 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T14	Cust: R 9316 JRef: 1XdW93160007 T206 DrwNo: 075.22.1440.34316 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.007	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.004	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.199
Max BC CSI: 0.361
Max Web CSI: 0.132

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	340	/-	/-	/189	/46	/92
E	322	/-	/-	/177	/47	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

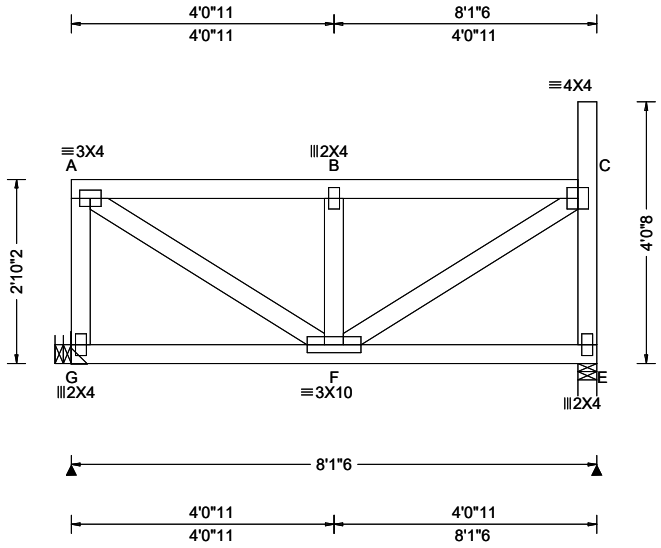
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96179 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T15	Cust: R 9316 JRef: 1XdW93160007 T212 DrwNo: 075.22.1440.34595 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.008 B	999	360
VERT(CL):	0.014 B	999	240
HORZ(LL):	-0.001 C	-	-
HORZ(TL):	0.003 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.208
Max BC CSI: 0.189
Max Web CSI: 0.126

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	501	/-	/-	/-	/191	/-
E	402	/-	/-	/-	/131	/-

Wind reactions based on MWFRS
G Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	157	-441	B - C	157	-445

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - F	512	-181	F - C	492	-175

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 60 plf at 0.00 to 60 plf at 7.82
BC: From 10 plf at 0.00 to 10 plf at 8.11
BC: 88 lb Conc. Load at 0.27, 2.05, 4.05, 6.05

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

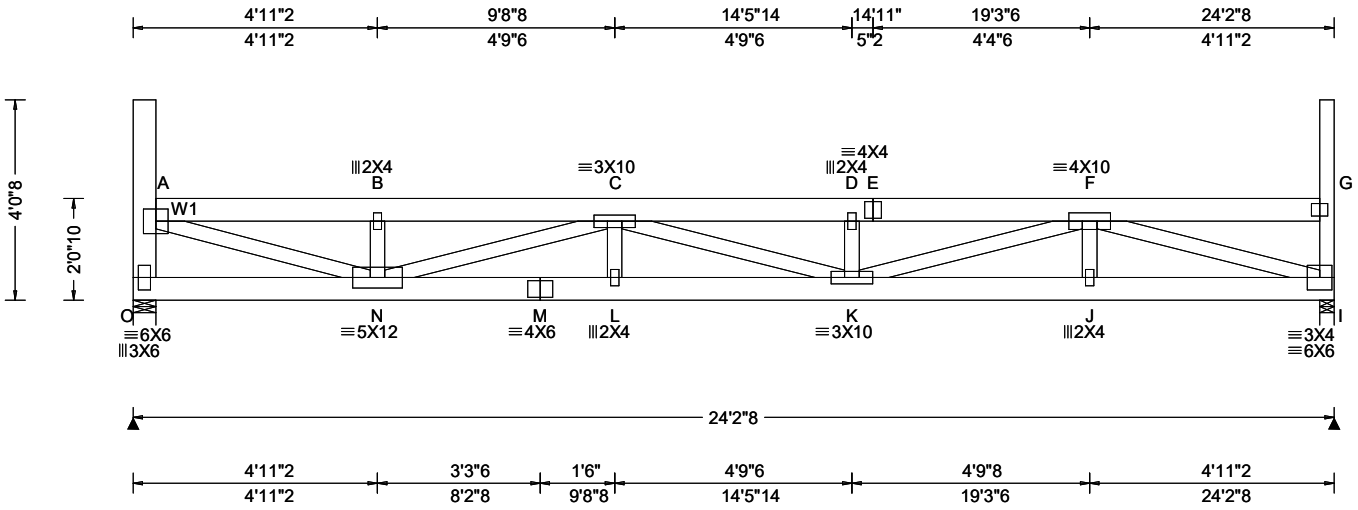
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96181 / FLAT FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T16	Cust: R 9316 JRef: 1XdW93160007 T112 DrwNo: 075.22.1440.34429 / NDW 03/16/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.107	D	999	360
VERT(CL): 0.217	D	999	240
HORZ(LL): 0.016	I	-	-
HORZ(TL): 0.033	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.078
Max BC CSI: 0.291
Max Web CSI: 0.402

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	1083	/-	/-	/-	/385	/-
I	1103	/-	/-	/-	/376	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	516	-1419	D - E	757	-2083
B - C	515	-1415	E - F	757	-2083
C - D	757	-2083			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	2080	-757	K - J	1417	-511
M - L	2080	-757	J - I	1417	-511
L - K	2080	-757			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	175	-490	K - F	702	-260
A - N	1403	-511	F - I	531	-1470
N - C	255	-701			

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 30 plf at 0.46 to 30 plf at 23.92
BC: From 10 plf at 0.00 to 10 plf at 22.06
BC: From 20 plf at 22.06 to 20 plf at 24.21
BC: 111 lb Conc. Load at 2.06, 4.06, 6.06, 8.06 10.06,12.06,14.06,16.06,18.06,20.06,22.06

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.99	34.38	4.14
23.92	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

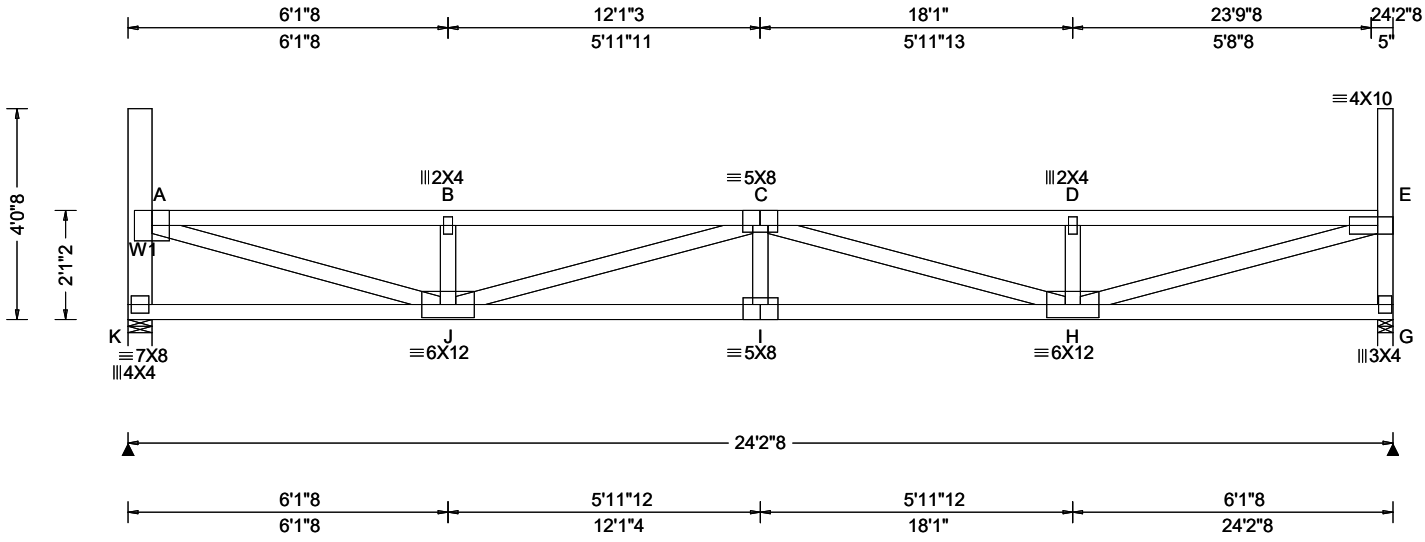
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96183 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T17	Cust: R 9316 JRef: 1XdW93160007 T175 DrwNo: 075.22.1440.31781 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.280	I	999	360
VERT(CL): 0.539	I	538	240
HORZ(LL): 0.041	A	-	-
HORZ(TL): 0.079	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.594
Max BC CSI: 0.931
Max Web CSI: 0.671

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	987	/-	/-	/495	/84	/139
G	998	/-	/-	/498	/86	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	258	-2708	C - D	257	-2711
B - C	257	-2704	D - E	258	-2715

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	3495	-324	I - H	3495	-324

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	98	-927	C - H	138	-819
A - J	2687	-260	H - E	2733	-260
J - C	142	-826	E - G	100	-941

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.95	33.87	4.20
23.92	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.26". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof. Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

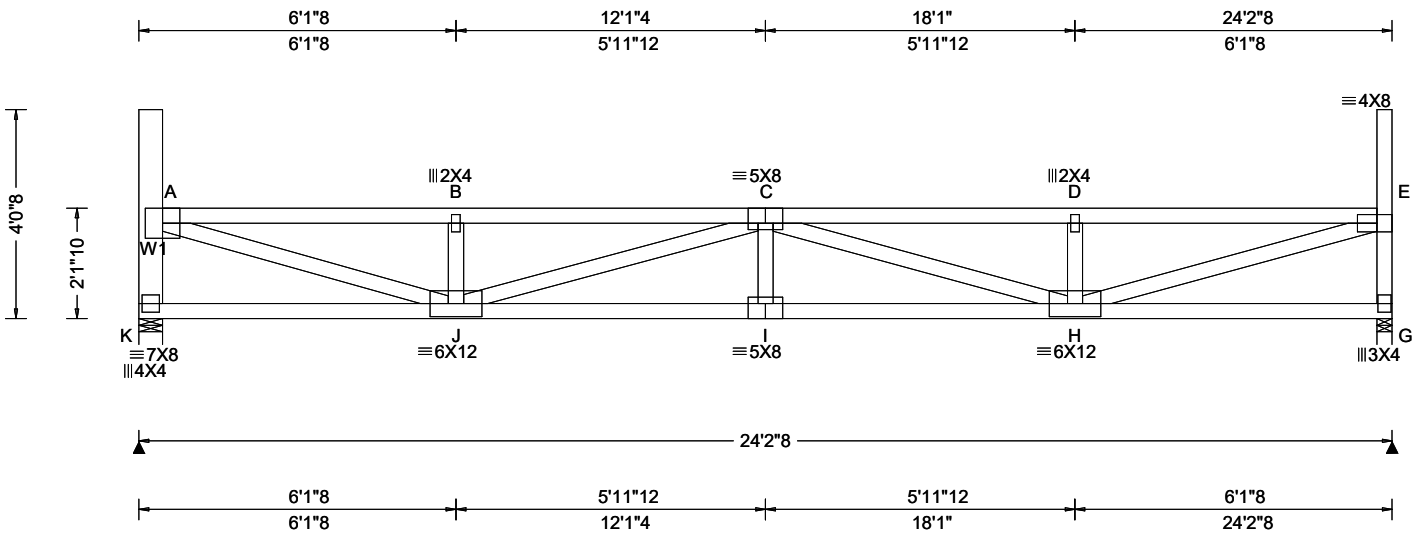
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96185 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T18	Cust: R 9316 JRef: 1XdW93160007 T180 DrwNo: 075.22.1440.29872 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.268 I	999	360
VERT(CL):	0.516 I	562	240
HORZ(LL):	0.041 A	-	-
HORZ(TL):	0.078 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.587
Max BC CSI: 0.910
Max Web CSI: 0.657

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	988	/-	/-	/495	/85	/138
G	998	/-	/-	/498	/87	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	253	-2649	C - D	253	-2651
B - C	253	-2645	D - E	253	-2656

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	3418	-319	I - H	3418	-319

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	98	-927	C - H	134	-802
A - J	2633	-255	H - E	2678	-255
J - C	139	-809	E - G	100	-941

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.91	32.49	4.38
23.92	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof. Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

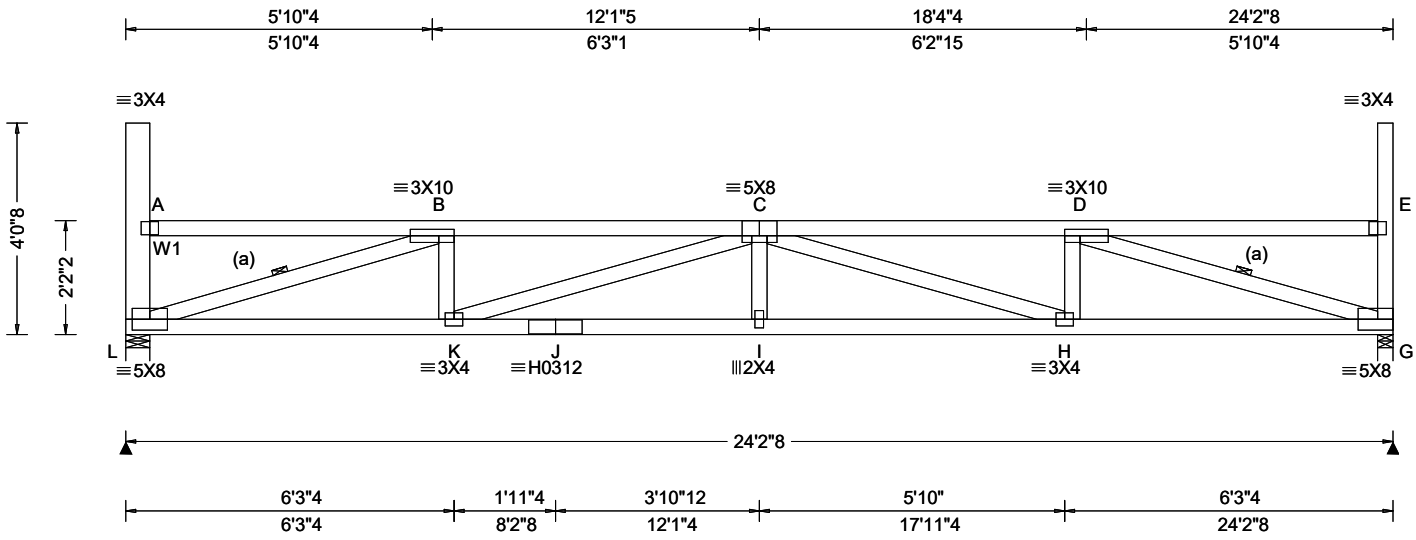
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96187 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T19	Cust: R 9316 JRef: 1XdW93160007 T171 DrwNo: 075.22.1440.34454 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.255 I	999	360
VERT(CL):	0.491 I	591	240
HORZ(LL):	0.060 G	-	-
HORZ(TL):	0.116 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.435
Max BC CSI: 0.883
Max Web CSI: 0.553

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	987	/-	/-	/495	/85	/136
G	998	/-	/-	/498	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	245	-2596	C - D	245	-2602

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	2539	-355	I - H	3350	-316
K - J	3350	-316	H - G	2544	-214
J - I	3350	-316			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	249	-2603	H - D	375	-1
K - C	137	-792	D - G	245	-2629
C - H	136	-786			

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

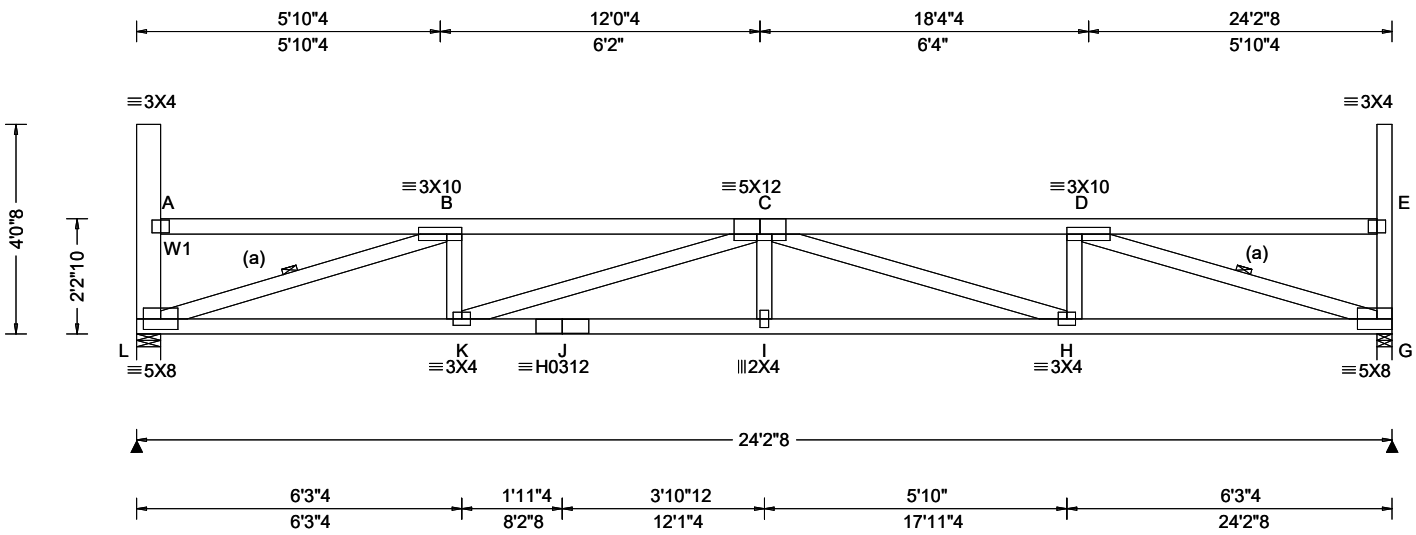
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96189 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T20	Cust: R 9316 JRef: 1XdW93160007 T179 DrwNo: 075.22.1440.28988 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.89 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.245 I	999	360
VERT(CL):	0.471 I	616	240
HORZ(LL):	0.059 G	-	-
HORZ(TL):	0.114 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.434
Max BC CSI: 0.864
Max Web CSI: 0.544

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	988	/-	/-	/495	/85	/135
G	998	/-	/-	/498	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	241	-2541	C - D	240	-2547

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	2486	-349	I - H	3279	-311
K - J	3279	-311	H - G	2491	-211
J - I	3279	-311			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	244	-2554	H - D	375	-1
K - C	133	-777	D - G	241	-2579
C - H	133	-771			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.82	29.72	4.79
23.92	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

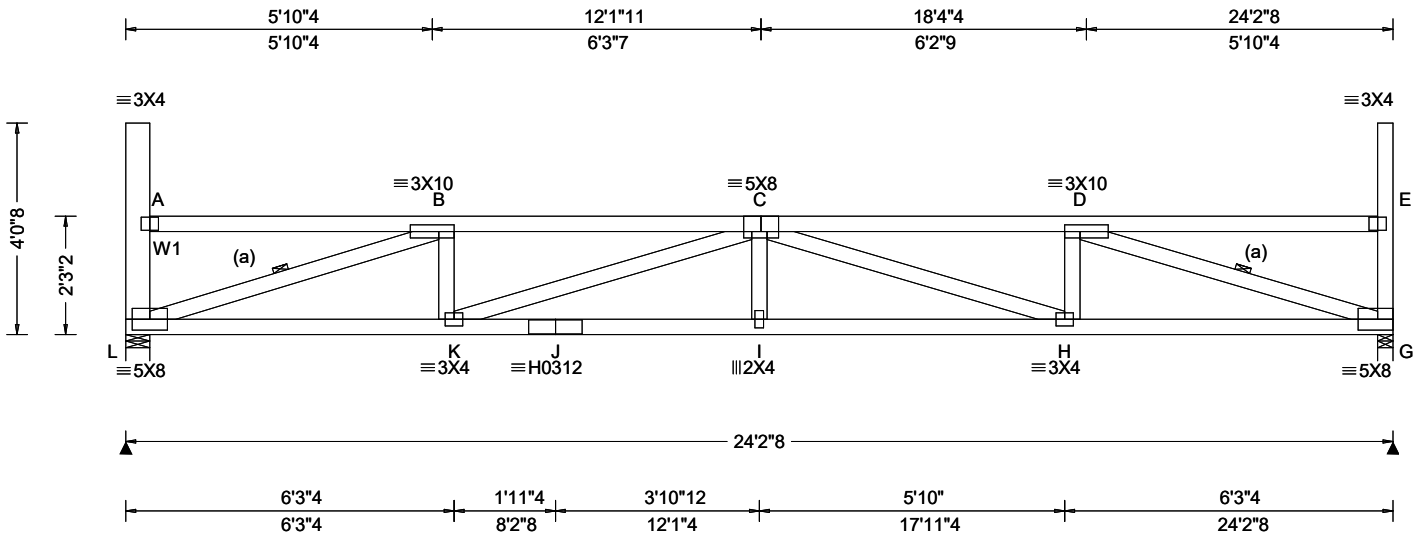
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96191 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T21	Cust: R 9316 JRef: 1XdW93160007 T183 DrwNo: 075.22.1440.33730 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.93 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.235 I	999	360
VERT(CL):	0.451 I	643	240
HORZ(LL):	0.058 G	-	-
HORZ(TL):	0.111 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.432
Max BC CSI: 0.844
Max Web CSI: 0.534

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	986	/-	/-	/495	/85	/134
G	997	/-	/-	/498	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	211	-2485	C - D	211	-2491

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	2431	-342	I - H	3204	-304
K - J	3204	-304	H - G	2436	-207
J - I	3204	-304			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	239	-2503	C - H	128	-753
K - C	129	-759	D - G	235	-2528

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.23" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

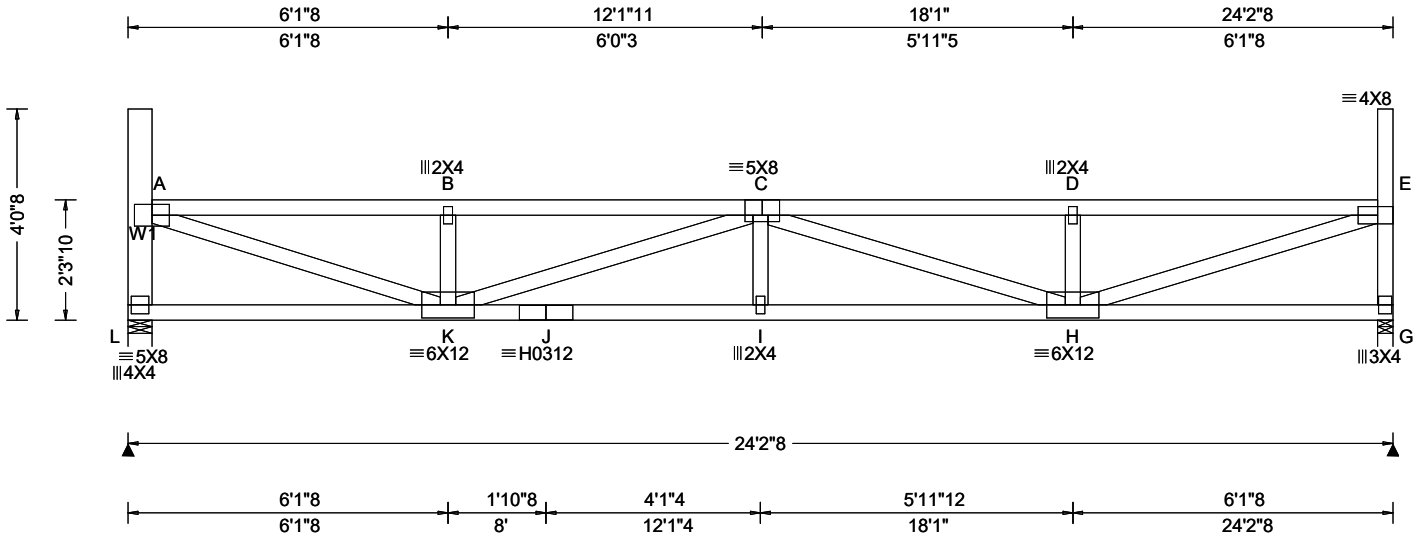
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96193 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T22	Cust: R 9316 JRef: 1XdW93160007 T174 DrwNo: 075.22.1440.32784 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.97 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.227 I	999	360
VERT(CL):	0.437 I	665	240
HORZ(LL):	0.038 A	-	-
HORZ(TL):	0.072 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.541
Max BC CSI: 0.832
Max Web CSI: 0.607

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	986	/-	/-	/495	/85	/133
G	997	/-	/-	/498	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	213	-2433	C - D	212	-2434
B - C	212	-2429	D - E	212	-2438

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3134	-297	I - H	3134	-297
J - I	3134	-297			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	99	-928	C - H	112	-739
A - K	2435	-235	H - E	2476	-235
K - C	116	-744	E - G	101	-941

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.74	26.95	5.28
23.92	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof. Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

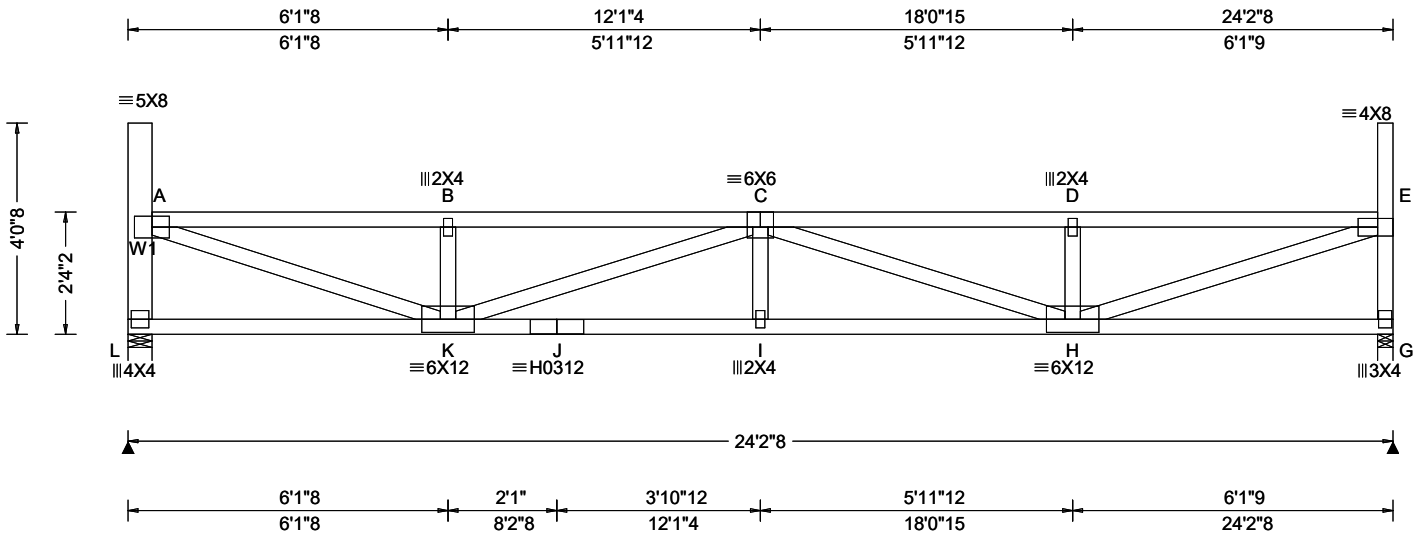
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96195 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T23	Cust: R 9316 JRef: 1XdW93160007 T184 DrwNo: 075.22.1440.31551 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.219 I	999	360
VERT(CL):	0.421 I	690	240
HORZ(LL):	0.037 A	-	-
HORZ(TL):	0.071 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.532
Max BC CSI: 0.816
Max Web CSI: 0.598

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	988	/-	/-	/494	/85	/132
G	998	/-	/-	/498	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	210	-2388	C - D	209	-2389
B - C	209	-2384	D - E	210	-2394

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3078	-295	I - H	3078	-295
J - I	3078	-295			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	-929	C - H	111	-728
A - K	2394	-232	H - E	2435	-232
K - C	114	-734	E - G	102	-943

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.70	25.57	5.57
23.92	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.22" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

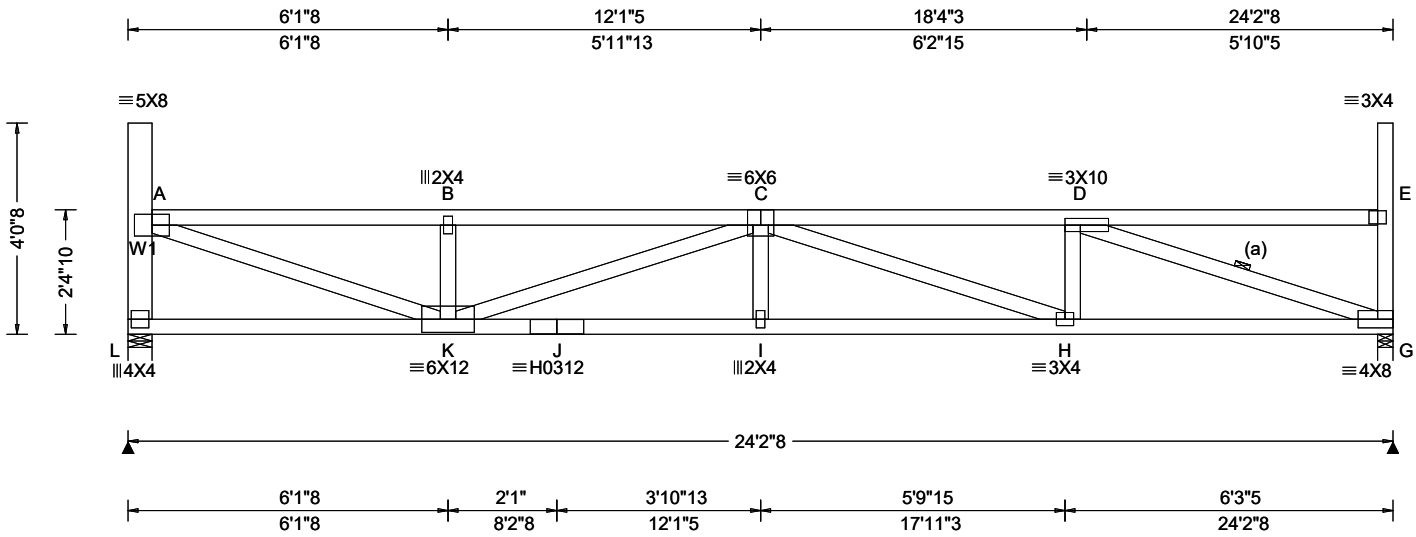
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96197 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T24	Cust: R 9316 JRef: 1XdW93160007 T176 DrwNo: 075.22.1440.34596 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.210	I	999	360
VERT(CL): 0.403	I	720	240
HORZ(LL): 0.043	G	-	-
HORZ(TL): 0.083	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.510
Max BC CSI: 0.803
Max Web CSI: 0.577

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	988	/-	/-	/494	/85	/131
G	998	/-	/-	/498	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	206	-2341	C - D	202	-2350
B - C	206	-2337			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3020	-292	I - H	3020	-292
J - I	3020	-292	H - G	2298	-202

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	-929	C - H	111	-712
A - K	2351	-228	D - G	225	-2401
K - C	112	-723			

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.21" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

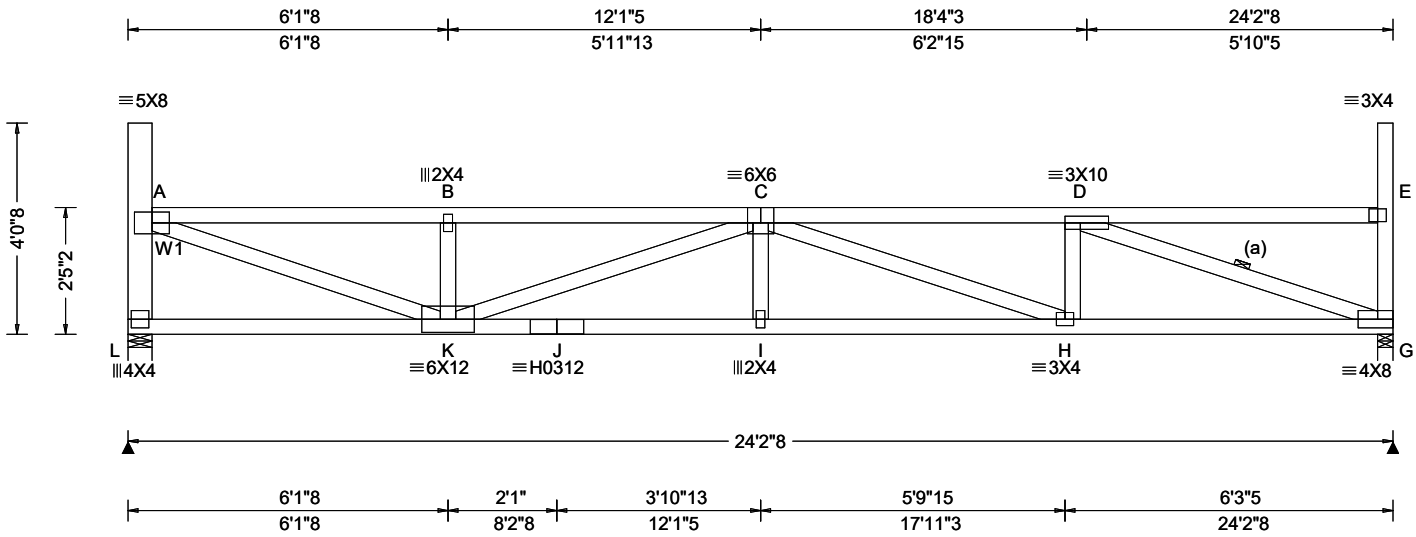
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96199 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T25	Cust: R 9316 JRef: 1XdW93160007 T172 DrwNo: 075.22.1440.29692 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.202 I	999	360
VERT(CL):	0.388 I	748	240
HORZ(LL):	0.042 G	-	-
HORZ(TL):	0.081 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.487
Max BC CSI: 0.788
Max Web CSI: 0.567

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	988	/-	/-	/494	/85	/129
G	998	/-	/-	/498	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	203	-2296	C - D	199	-2305
B - C	202	-2292			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	2962	-288	I - H	2962	-288
J - I	2962	-288	H - G	2254	-200

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	-930	C - H	109	-699
A - K	2311	-224	D - G	222	-2360
K - C	110	-711			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.61	22.80	5.50
23.92	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

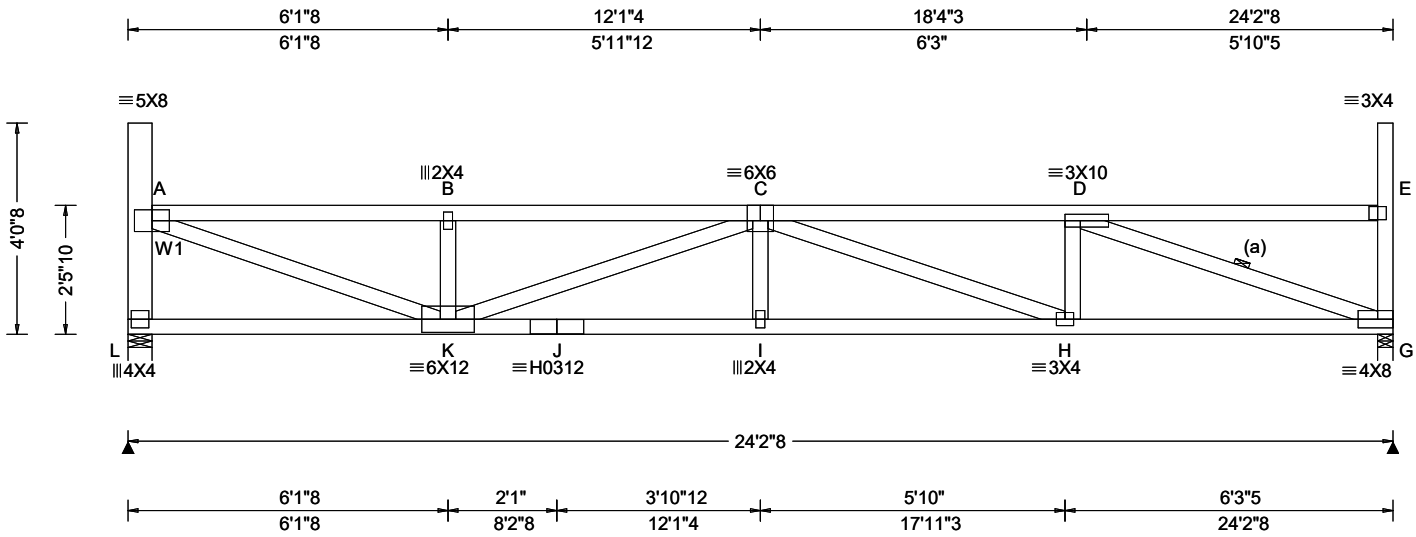
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96201 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T26	Cust: R 9316 JRef: 1XdW93160007 T173 DrwNo: 075.22.1440.30017 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.195 I	999	360
VERT(CL):	0.374 I	776	240
HORZ(LL):	0.042 G	-	-
HORZ(TL):	0.080 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.467
Max BC CSI: 0.773
Max Web CSI: 0.557

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	988	/-	/-	/494	/86	/128
G	998	/-	/-	/497	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	199	-2253	C - D	195	-2262
B - C	199	-2249			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	2906	-284	I - H	2906	-284
J - I	2906	-284	H - G	2212	-197

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	-930	C - H	107	-687
A - K	2272	-220	D - G	218	-2322
K - C	107	-699			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.19" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

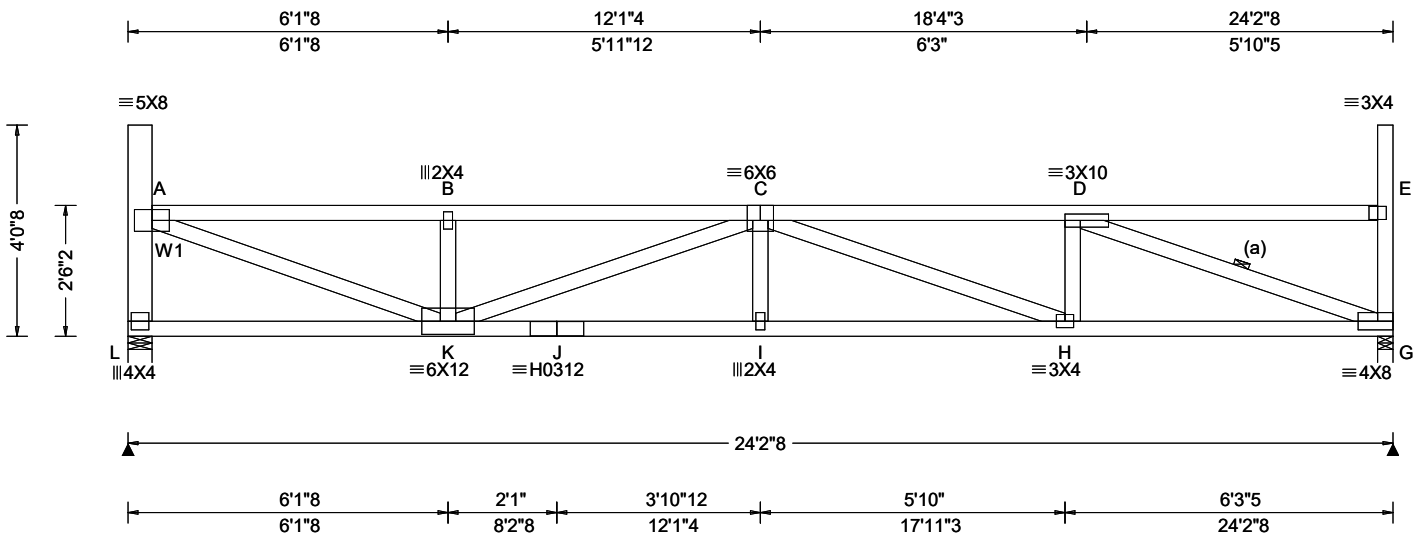
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96203 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T27	Cust: R 9316 JRef: 1XdW93160007 T157 DrwNo: 075.22.1440.29507 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.188 I	999	360
VERT(CL):	0.361 I	804	240
HORZ(LL):	0.041 G	-	-
HORZ(TL):	0.078 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.459
Max BC CSI: 0.759
Max Web CSI: 0.548

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	988	/-	/-	/494	/86	/127
G	998	/-	/-	/497	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	196	-2212	C - D	192	-2220
B - C	196	-2208			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	2852	-280	I - H	2852	-280
J - I	2852	-280	H - G	2172	-195

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	101	-930	C - H	104	-676
A - K	2234	-216	D - G	215	-2284
K - C	105	-687			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.19" DL: 0.17". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

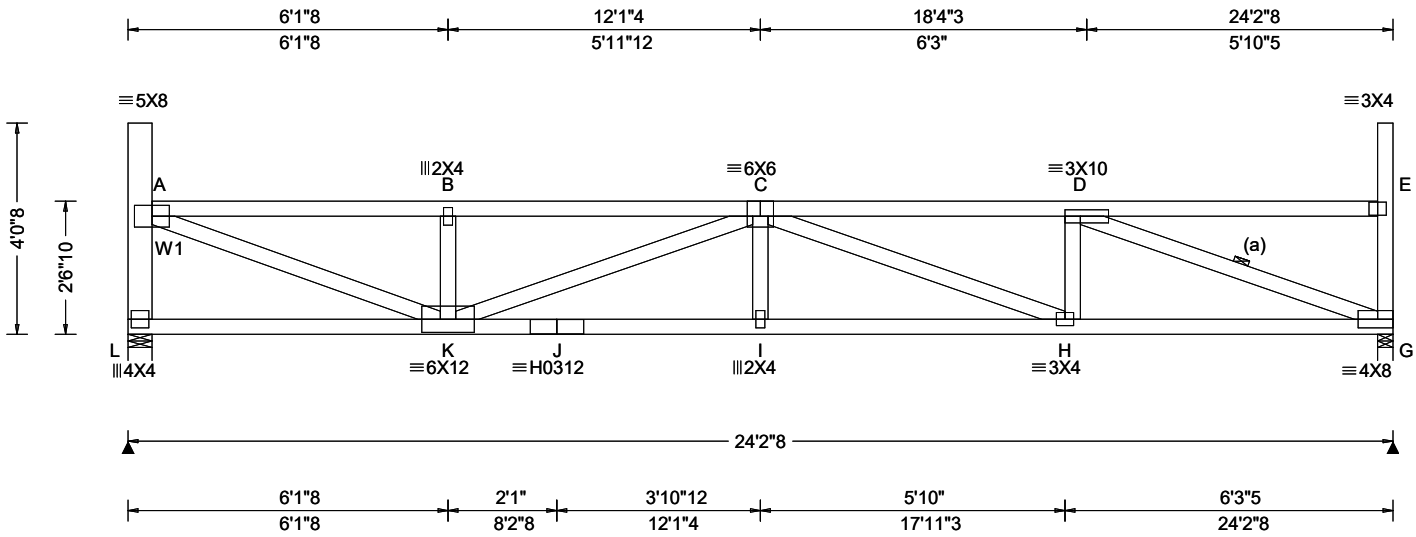
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96205 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T28	Cust: R 9316 JRef: 1XdW93160007 T181 DrwNo: 075.22.1440.34610 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.181 I	999	360
VERT(CL):	0.349 I	833	240
HORZ(LL):	0.040 G	-	-
HORZ(TL):	0.077 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.452
Max BC CSI: 0.746
Max Web CSI: 0.539

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	988	/-	/-	/494	/86	/126
G	998	/-	/-	/497	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	193	-2172	C - D	189	-2180
B - C	192	-2168			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	2800	-276	I - H	2800	-276
J - I	2800	-276	H - G	2132	-193

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	101	-930	C - H	102	-665
A - K	2198	-213	D - G	212	-2248
K - C	103	-676			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.18" DL: 0.17". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

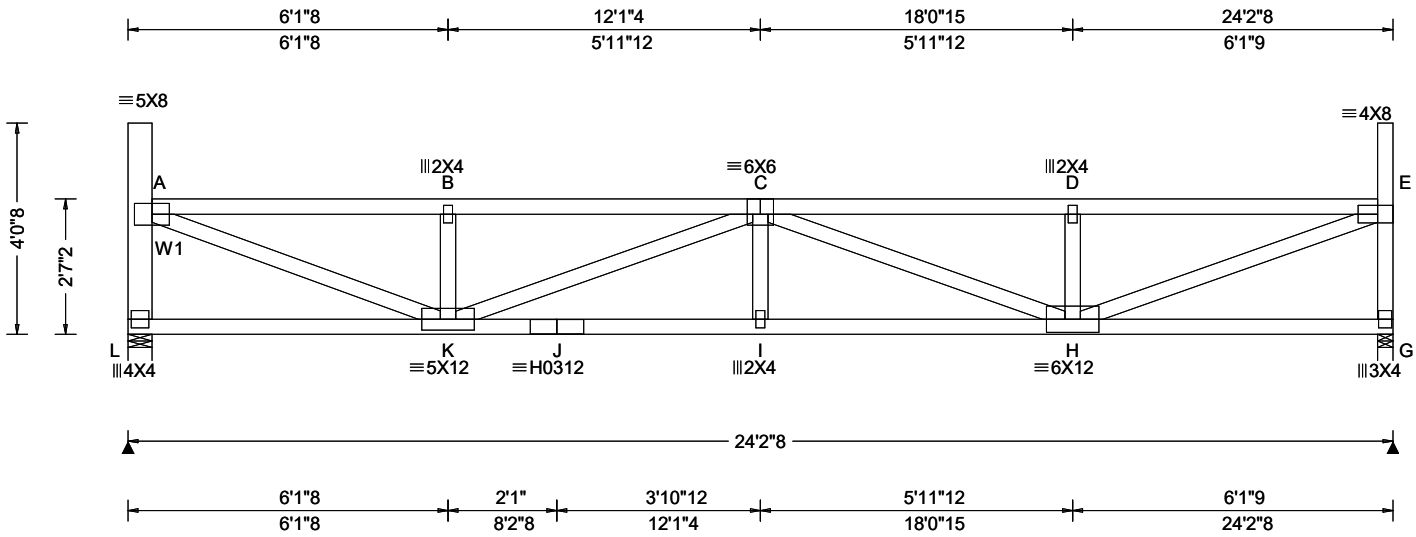
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96207 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T29	Cust: R 9316 JRef: 1XdW93160007 T182 DrwNo: 075.22.1440.30769 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.176 I	999	360
VERT(CL):	0.339 I	857	240
HORZ(LL):	0.033 A	-	-
HORZ(TL):	0.064 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.464
Max BC CSI: 0.730
Max Web CSI: 0.540

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	988	/-	/-	/494	/86	/125
G	998	/-	/-	/497	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	190	-2134	C - D	189	-2135
B - C	190	-2130	D - E	190	-2139

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	2748	-271	I - H	2748	-271
J - I	2748	-271			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	101	-930	C - H	97	-657
A - K	2164	-210	H - E	2201	-209
K - C	99	-662	E - G	103	-944

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.45	17.27	4.16
23.92	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.18" DL: 0.16". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

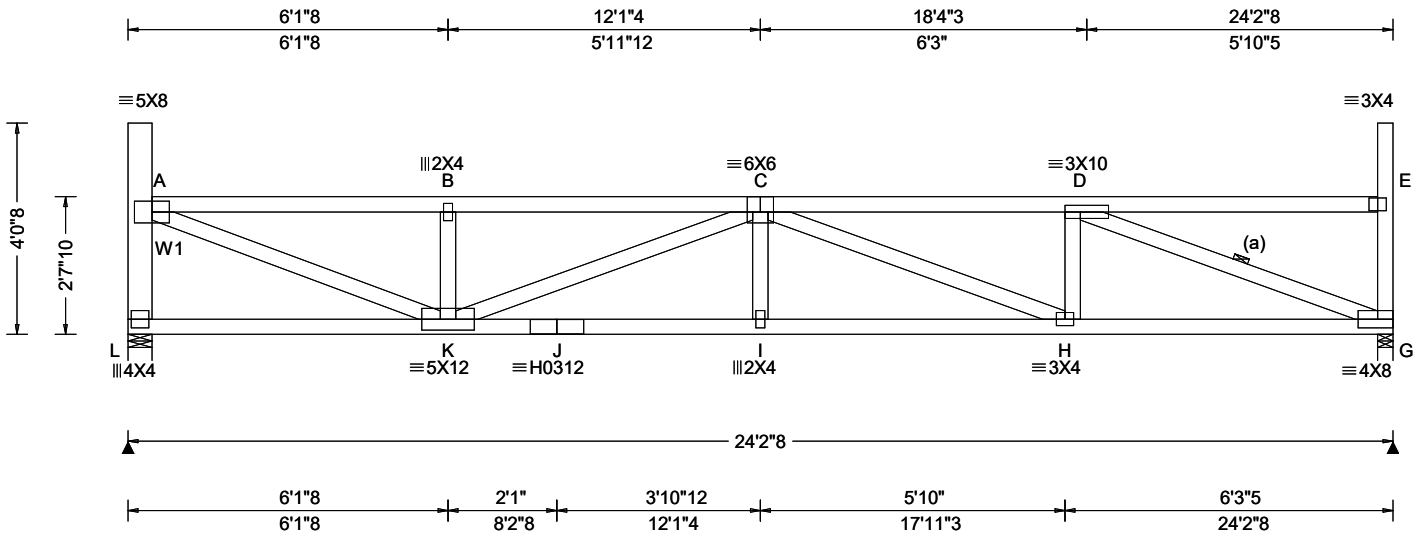
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96209 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T30	Cust: R 9316 JRef: 1XdW93160007 T178 DrwNo: 075.22.1440.33294 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.169 I	999	360
VERT(CL):	0.326 I	891	240
HORZ(LL):	0.039 G	-	-
HORZ(TL):	0.074 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.447
Max BC CSI: 0.720
Max Web CSI: 0.523

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	988	/-	/-	/494	/86	/123
G	998	/-	/-	/497	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	187	-2096	C - D	183	-2104
B - C	187	-2092			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	2702	-269	I - H	2702	-269
J - I	2702	-269	H - G	2058	-189

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	101	-931	C - H	98	-644
A - K	2130	-206	D - G	206	-2180
K - C	98	-655			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.17" DL: 0.16". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

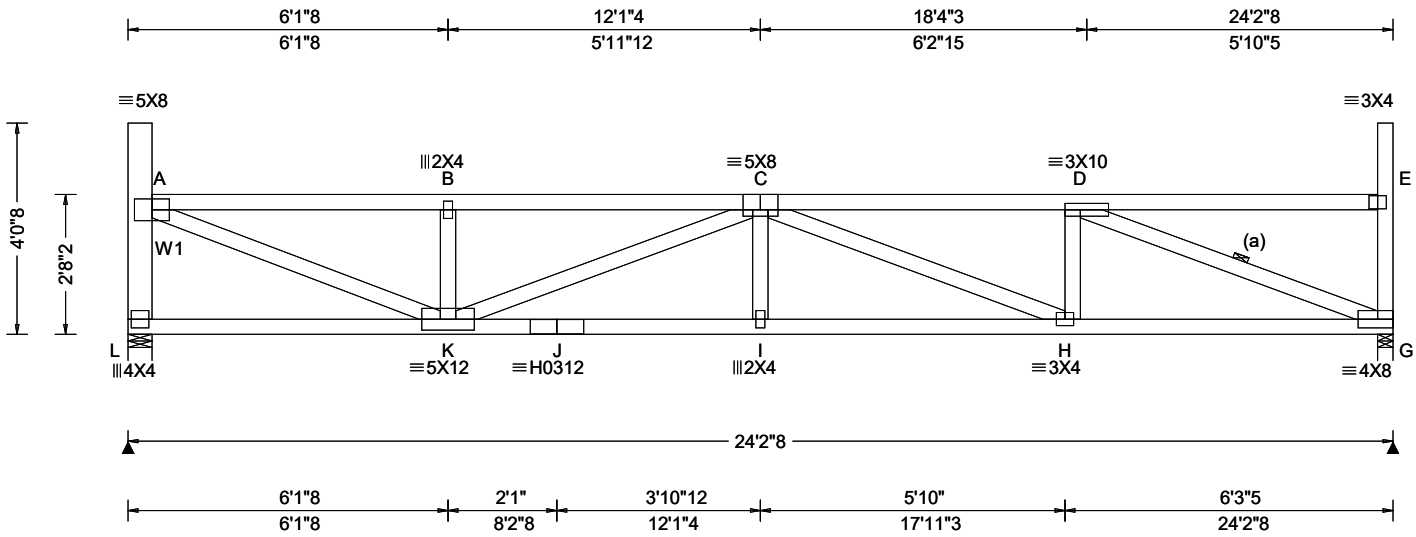
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96211 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T31	Cust: R 9316 JRef: 1XdW93160007 T185 DrwNo: 075.22.1440.33943 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.164 I	999	360
VERT(CL):	0.315 I	921	240
HORZ(LL):	0.038 G	-	-
HORZ(TL):	0.073 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.445
Max BC CSI: 0.708
Max Web CSI: 0.515

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	988	/-	/-	/494	/86	/122
G	998	/-	/-	/497	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	184	-2060	C - D	181	-2068
B - C	184	-2056			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	2655	-265	I - H	2655	-265
J - I	2655	-265	H - G	2022	-187

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	101	-931	C - H	96	-634
A - K	2097	-203	D - G	203	-2147
K - C	96	-645			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.36	14.50	3.50
23.92	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.15". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

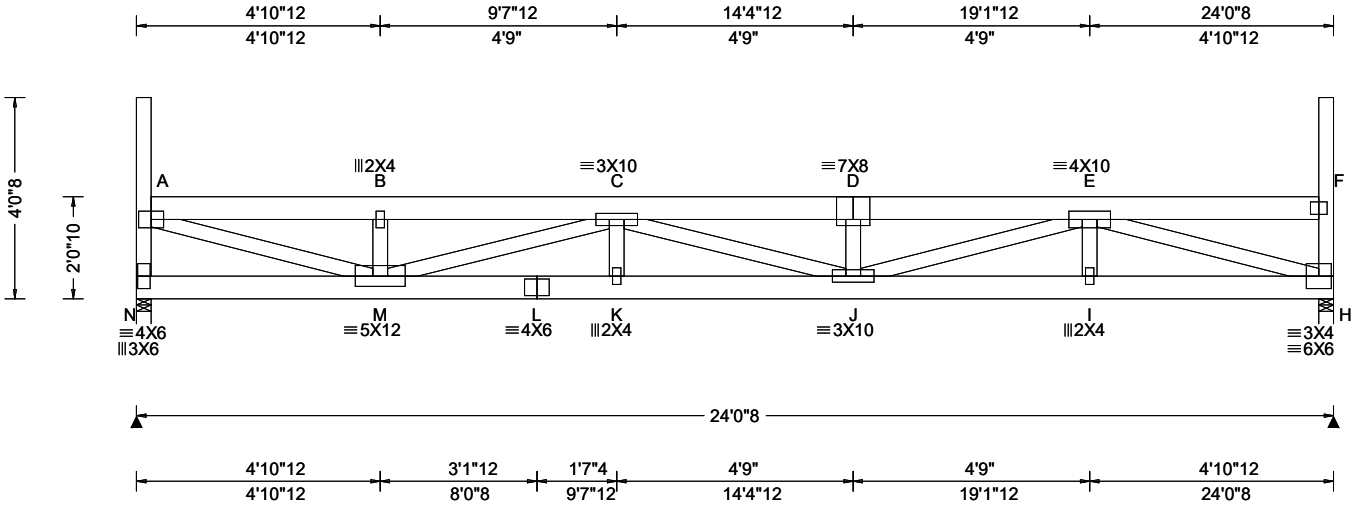
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96213 / FLAT FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T32	Cust: R 9316 JRef: 1XdW93160007 T159 DrwNo: 075.22.1440.30364 / NDW 03/16/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.105 D	999	360
VERT(CL):	0.212 D	999	240
HORZ(LL):	0.016 H	-	-
HORZ(TL):	0.032 H	-	-

Creep Factor: 2.0
Max TC CSI: 0.077
Max BC CSI: 0.287
Max Web CSI: 0.395

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1089	/-	/-	/-	/388	/-
H	1096	/-	/-	/-	/373	/-

Wind reactions based on MWFRS
N Brg Wid = 3.5 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	511	- 1404	C - D	747	- 2055
B - C	510	- 1401	D - E	747	- 2055

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2054	- 748	J - I	1398	- 504
L - K	2054	- 748	I - H	1398	- 504
K - J	2054	- 748			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	176	- 492	J - E	693	- 256
A - M	1415	- 516	E - H	524	- 1451
M - C	251	- 689			

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 30 plf at 0.29 to 30 plf at 23.75
BC: From 10 plf at 0.00 to 10 plf at 21.90
BC: From 20 plf at 21.90 to 20 plf at 24.04
BC: 111 lb Conc. Load at 1.90, 3.90, 5.90, 7.90 9.90,11.90,13.90,15.90,17.90,19.90,21.90

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.99	34.38	4.14
23.75	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

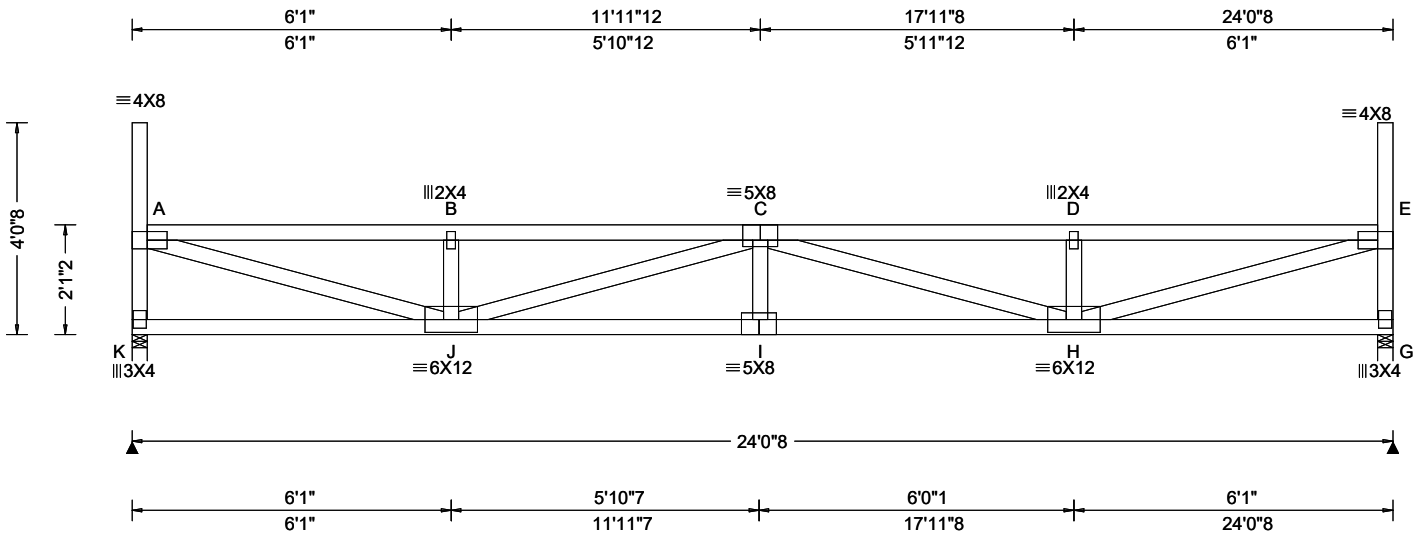
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96215 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T33	Cust: R 9316 JRef: 1XdW93160007 T191 DrwNo: 075.22.1440.30443 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.249 I	999	360
VERT(CL):	0.502 I	575	240
HORZ(LL):	0.037 A	-	-
HORZ(TL):	0.074 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.584
Max BC CSI: 0.873
Max Web CSI: 0.631

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	944	/-	/-	/495	/86	/139
G	944	/-	/-	/495	/86	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	255	-2549	C - D	255	-2548
B - C	255	-2545	D - E	256	-2552

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	3281	-321	I - H	3281	-321

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	100	-888	C - H	138	-766
A - J	2567	-256	H - E	2571	-258
J - C	143	-770	E - G	100	-888

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.95	33.87	4.20
23.75	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof. Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

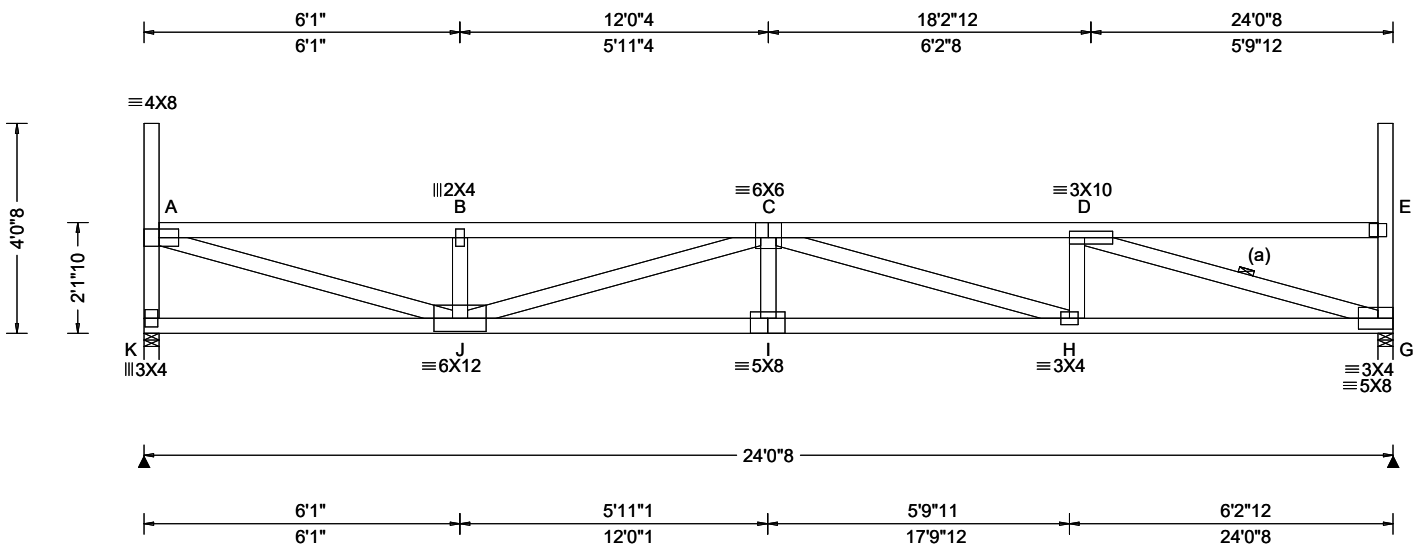
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96217 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T34	Cust: R 9316 JRef: 1XdW93160007 T200 DrwNo: 075.22.1440.32994 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.261	I	999	360
VERT(CL): 0.502	I	575	240
HORZ(LL): 0.048	G	-	-
HORZ(TL): 0.092	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.578
Max BC CSI: 0.894
Max Web CSI: 0.648

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	991	/-	/-	/495	/86	/138
G	991	/-	/-	/495	/86	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 1.6 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	250	-2619	C - D	247	-2624
B - C	250	-2615			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	3373	-317	H - G	2566	-214
I - H	3373	-317			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	100	-935	C - H	138	-786
A - J	2642	-251	D - G	247	-2648
J - C	140	-794			

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

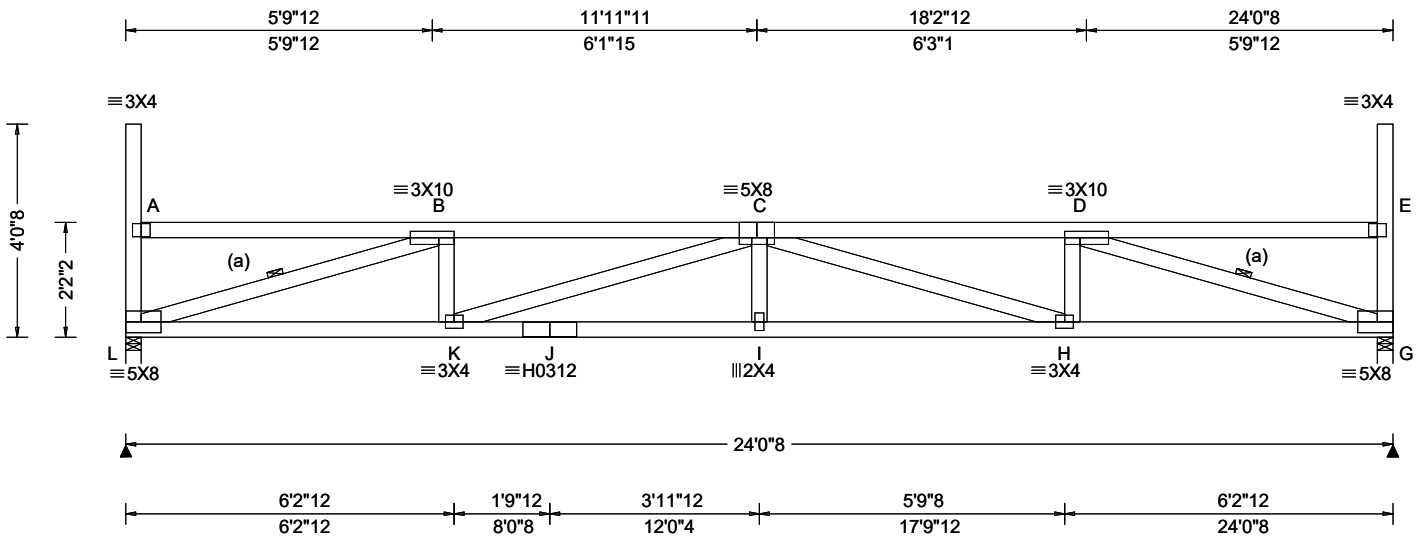
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96219 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T35	Cust: R 9316 JRef: 1XdW93160007 T205 DrwNo: 075.22.1440.32777 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.249 I	999	360
VERT(CL):	0.477 I	604	240
HORZ(LL):	0.059 G	-	-
HORZ(TL):	0.113 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.428
Max BC CSI: 0.863
Max Web CSI: 0.540

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	990	/-	/-	/495	/86	/136
G	990	/-	/-	/495	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.6 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	241	-2563	C - D	241	-2562

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	2506	-352	I - H	3294	-309
K - J	3294	-309	H - G	2505	-209
J - I	3294	-309			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	241	-2591	C - H	134	-770
K - C	136	-769	D - G	241	-2591

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.25" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

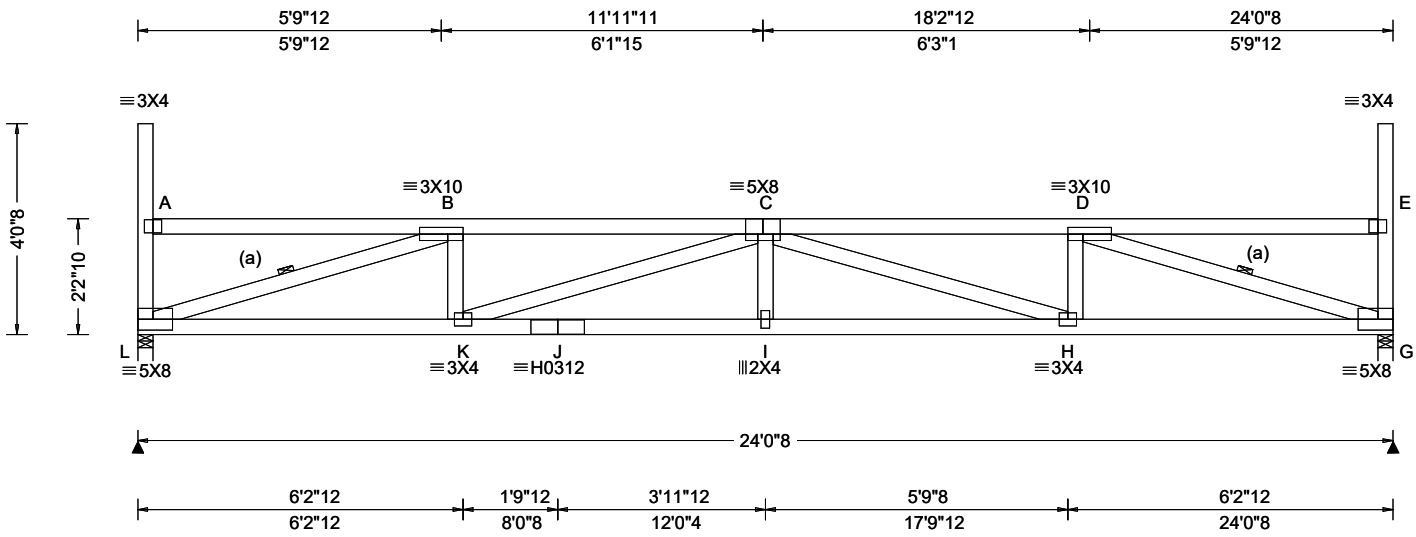
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96221 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T36	Cust: R 9316 JRef: 1XdW93160007 T213 DrwNo: 075.22.1440.30297 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.89 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.238 I	999	360
VERT(CL):	0.458 I	630	240
HORZ(LL):	0.058 G	-	-
HORZ(TL):	0.111 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.427
Max BC CSI: 0.845
Max Web CSI: 0.531

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	990	/-	/-	/495	/86	/135
G	990	/-	/-	/495	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.6 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	236	-2509	C - D	236	-2508

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	2453	-346	I - H	3224	-304
K - J	3224	-304	H - G	2453	-207
J - I	3224	-304			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	237	-2542	C - H	131	-755
K - C	132	-754	D - G	236	-2542

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.82	29.72	4.79
23.75	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.24" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

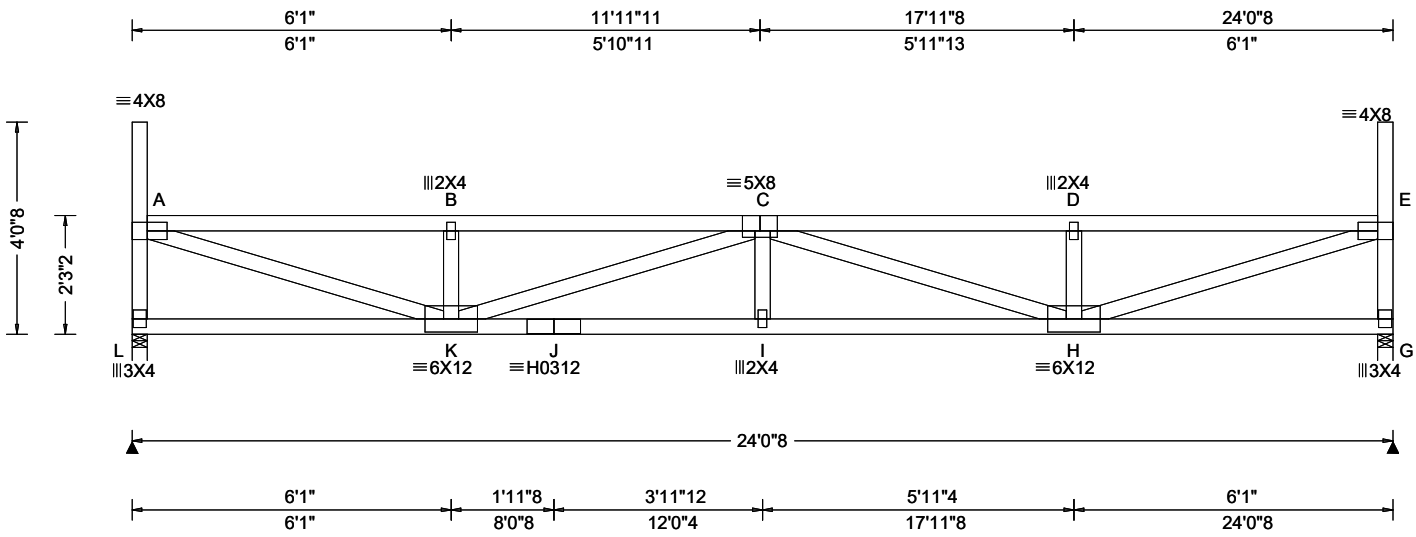
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96223 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T37	Cust: R 9316 JRef: 1XdW93160007 T204 DrwNo: 075.22.1440.31474 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.93 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.231 I	999	360
VERT(CL):	0.444 I	649	240
HORZ(LL):	0.037 A	-	-
HORZ(TL):	0.071 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.542
Max BC CSI: 0.832
Max Web CSI: 0.611

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	990	/-	/-	/495	/86	/134
G	990	/-	/-	/495	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.6 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	214	-2454	C - D	212	-2449
B - C	213	-2450	D - E	213	-2454

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3152	-297	I - H	3152	-297
J - I	3152	-297			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	-934	C - H	123	-741
A - K	2489	-235	H - E	2488	-236
K - C	128	-740	E - G	100	-934

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.78	28.34	5.03
23.75	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof. Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

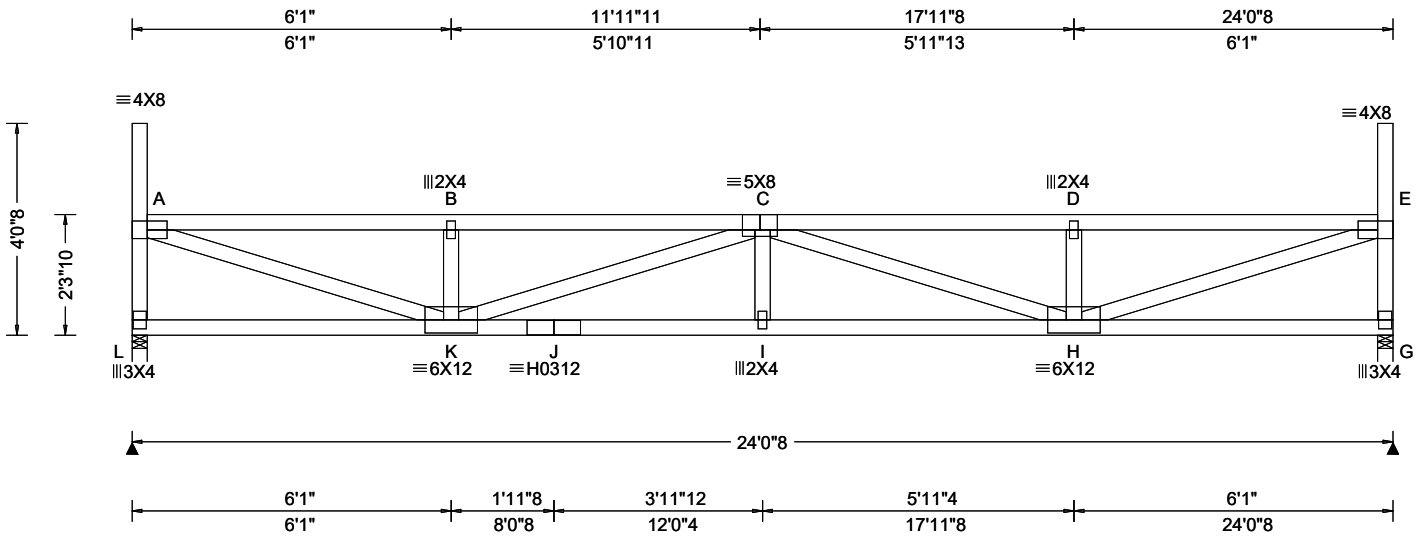
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96225 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T38	Cust: R 9316 JRef: 1XdW93160007 T209 DrwNo: 075.22.1440.32697 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.97 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.222 I	999	360
VERT(CL):	0.427 I	676	240
HORZ(LL):	0.037 A	-	-
HORZ(TL):	0.070 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.532
Max BC CSI: 0.815
Max Web CSI: 0.599

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	990	/-	/-	/495	/86	/133
G	990	/-	/-	/495	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.6 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	210	-2404	C - D	209	-2400
B - C	209	-2400	D - E	209	-2404

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3088	-293	I - H	3088	-293
J - I	3088	-293			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	-935	C - H	111	-727
A - K	2443	-231	H - E	2442	-232
K - C	116	-726	E - G	100	-934

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.74	26.95	5.28
23.75	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.22" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

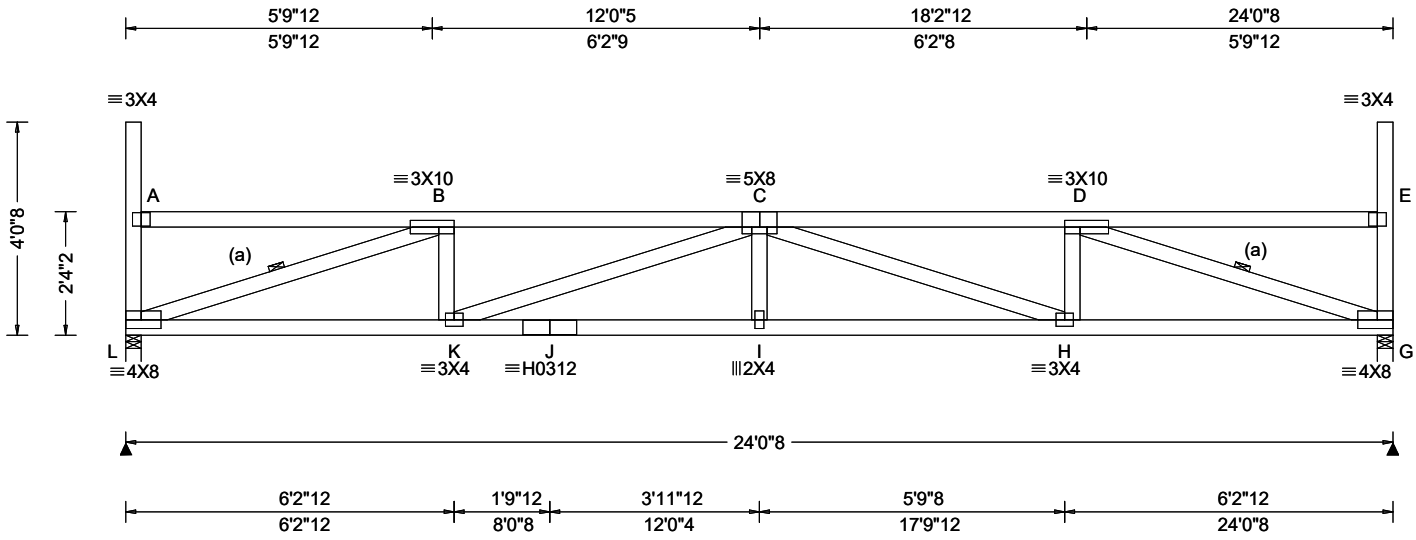
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96227 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T39	Cust: R 9316 JRef: 1XdW93160007 T199 DrwNo: 075.22.1440.31063 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.212	I	999	360
VERT(CL): 0.407	I	708	240
HORZ(LL): 0.055	G	-	-
HORZ(TL): 0.105	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.424
Max BC CSI: 0.796
Max Web CSI: 0.508

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	991	/-	/-	/495	/87	/132
G	991	/-	/-	/495	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.6 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	202	-2363	C - D	203	-2363

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	2311	-310	I - H	3039	-294
K - J	3039	-294	H - G	2310	-201
J - I	3039	-294			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	227	-2411	C - H	115	-718
K - C	116	-717	D - G	226	-2410

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.70	25.57	5.57
23.75	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.21" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

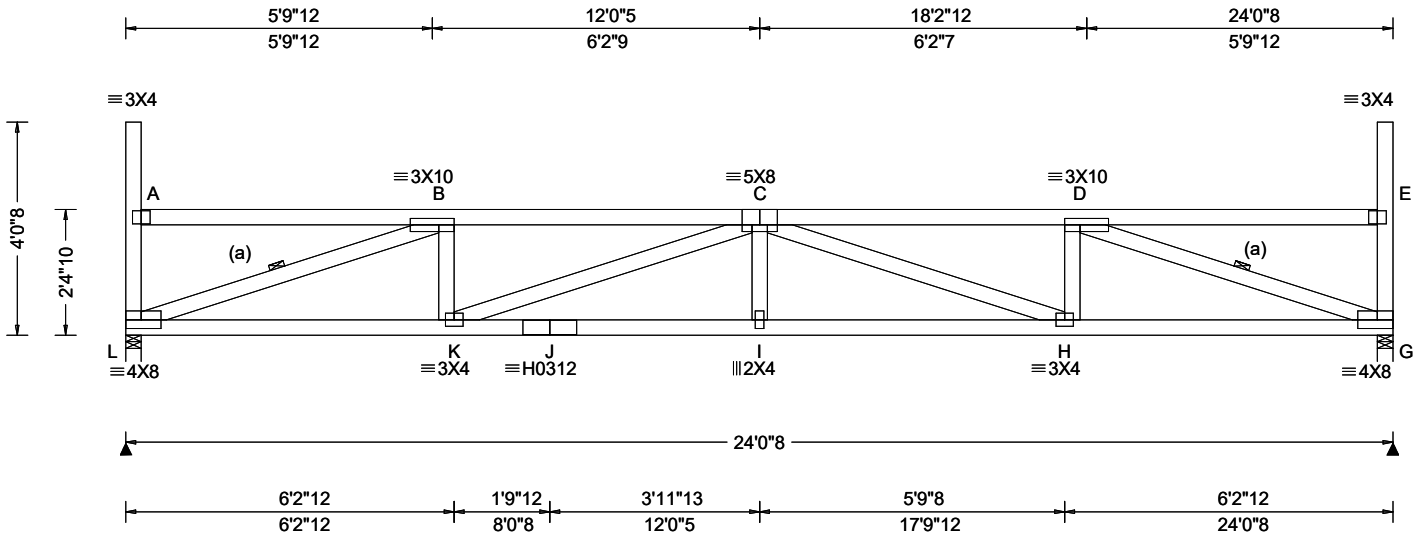
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96229 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T40	Cust: R 9316 JRef: 1XdW93160007 T211 DrwNo: 075.22.1440.29980 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.204 I	999	360
VERT(CL):	0.392 I	735	240
HORZ(LL):	0.053 G	-	-
HORZ(TL):	0.103 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.423
Max BC CSI: 0.780
Max Web CSI: 0.500

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	991	/-	/-	/494	/87	/131
G	991	/-	/-	/494	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.6 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	199	-2318	C - D	199	-2317

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	2266	-305	I - H	2980	-290
K - J	2980	-290	H - G	2265	-199
J - I	2980	-290			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	223	-2370	C - H	112	-705
K - C	114	-704	D - G	222	-2369

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

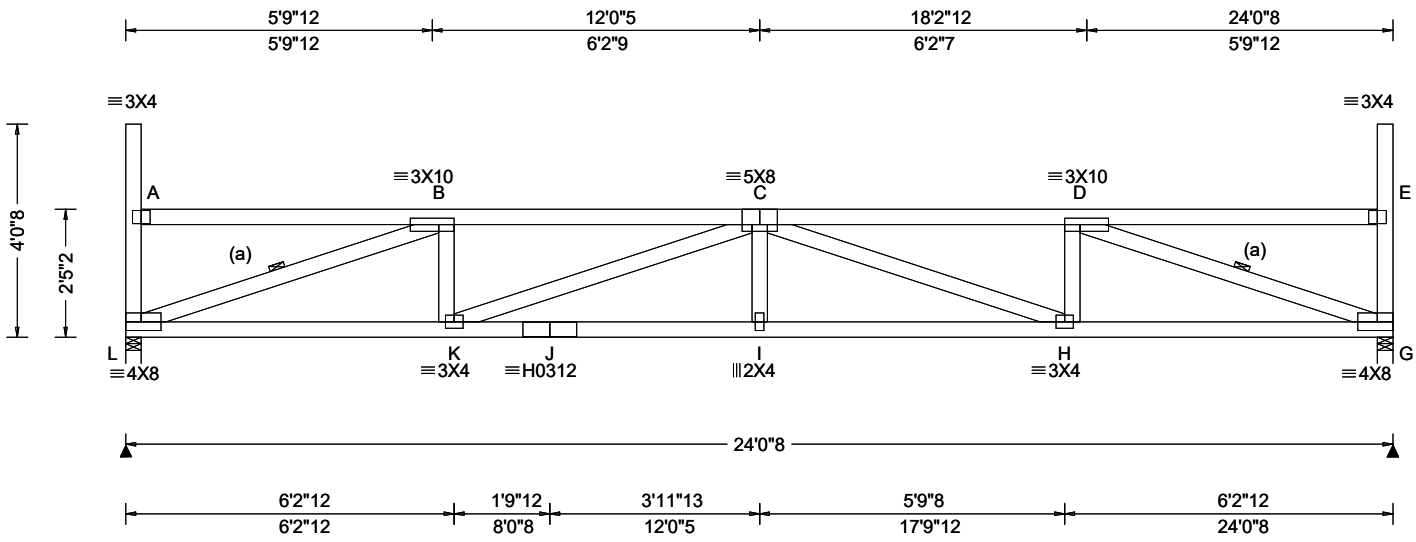
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96231 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T41	Cust: R 9316 JRef: 1XdW93160007 T201 DrwNo: 075.22.1440.34961 / NDW 03/16/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.197 I 999 360
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.378 I 763 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.052 G - -
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.101 G - -
NCBCLL: 0.00	Mean Height: 22.09 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.422
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.764
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.493
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE, HS	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	991	/-	/-	/494	/87	/129
G	991	/-	/-	/494	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.6 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	196	-2273	C - D	196	-2273

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	2223	-320	I - H	2923	-286
K - J	2923	-286	H - G	2222	-197
J - I	2923	-286			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	219	-2330	C - H	118	-693
K - C	119	-692	D - G	219	-2329

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

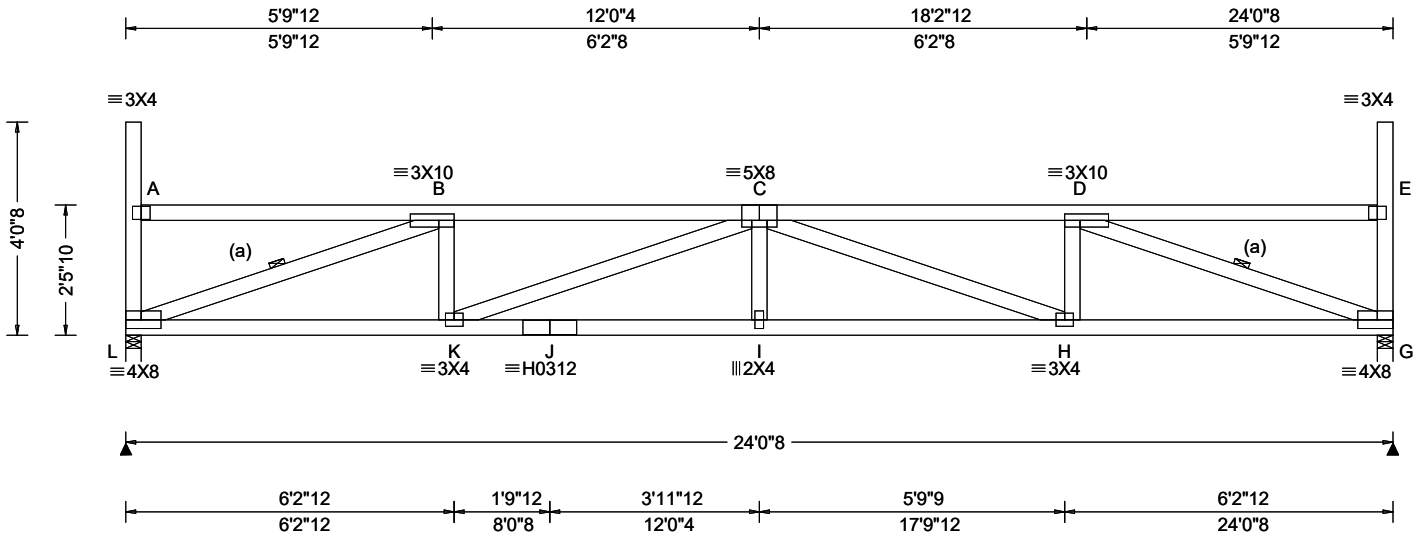
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96233 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T42	Cust: R 9316 JRef: 1XdW93160007 T195 DrwNo: 075.22.1440.29211 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.190	I	999	360
VERT(CL): 0.364	I	791	240
HORZ(LL): 0.051	G	-	-
HORZ(TL): 0.099	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.421
Max BC CSI: 0.750
Max Web CSI: 0.486

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	991	/-	/-	/494	/87	/128
G	991	/-	/-	/494	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.6 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	192	-2231	C - D	193	-2230

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	2181	-315	I - H	2868	-282
K - J	2868	-282	H - G	2181	-195
J - I	2868	-282			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	216	-2291	C - H	116	-681
K - C	117	-680	D - G	216	-2290

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.57	21.42	5.16
23.75	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.19" DL: 0.17". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

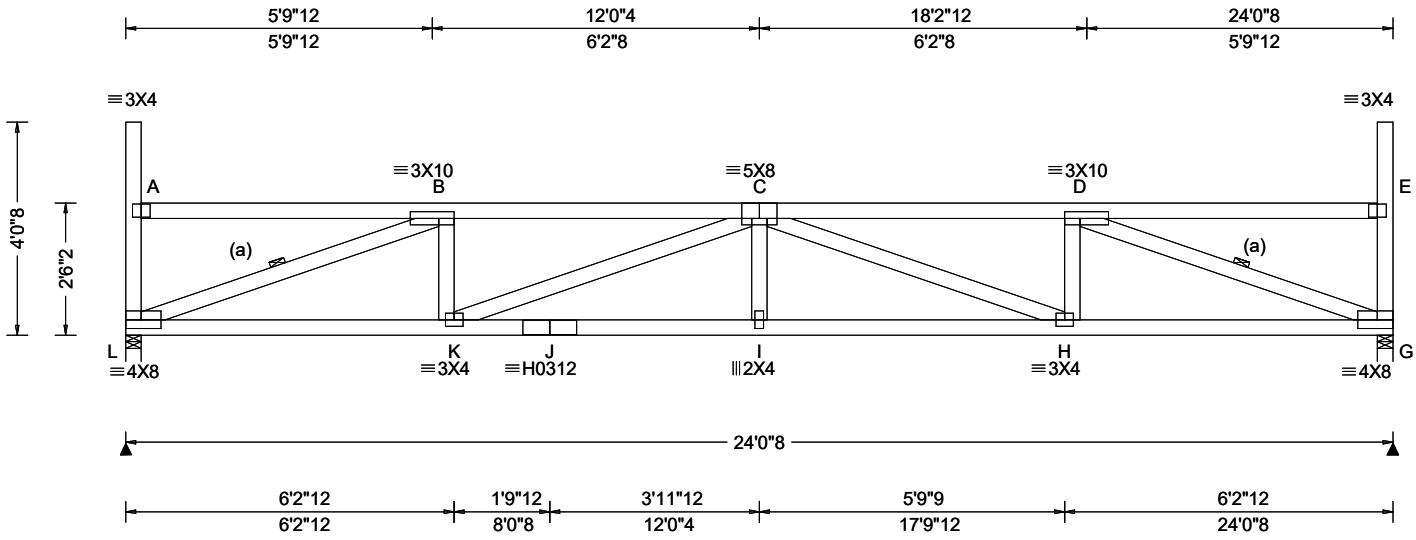
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96235 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T43	Cust: R 9316 JRef: 1XdW93160007 T198 DrwNo: 075.22.1440.33902 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.183	I	999	360
VERT(CL): 0.352	I	820	240
HORZ(LL): 0.050	G	-	-
HORZ(TL): 0.097	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.420
Max BC CSI: 0.736
Max Web CSI: 0.480

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	991	/-	/-	/494	/87	/127
G	991	/-	/-	/494	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.6 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	212	-2190	C - D	212	-2189

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	2141	-310	I - H	2814	-278
K - J	2814	-278	H - G	2140	-193
J - I	2814	-278			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	213	-2254	C - H	113	-670
K - C	114	-669	D - G	212	-2254

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.53	20.04	4.83
23.75	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.18" DL: 0.17". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

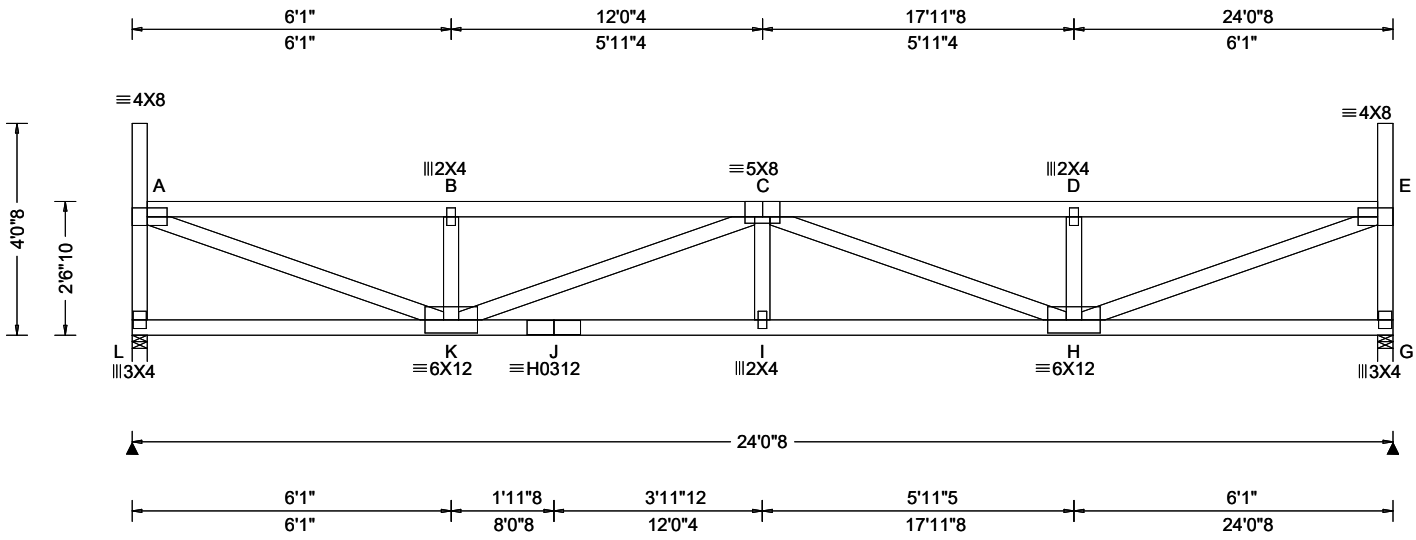
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96237 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T44	Cust: R 9316 JRef: 1XdW93160007 T202 DrwNo: 075.22.1440.35317 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.179 I	999	360
VERT(CL):	0.343 I	841	240
HORZ(LL):	0.033 A	-	-
HORZ(TL):	0.063 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.459
Max BC CSI: 0.728
Max Web CSI: 0.542

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	991	/-	/-	/494	/87	/126
G	991	/-	/-	/494	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.6 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	212	-2148	C - D	211	-2143
B - C	211	-2144	D - E	212	-2147

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	2759	-272	I - H	2759	-272
J - I	2759	-272			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	102	-937	C - H	107	-659
A - K	2208	-210	H - E	2207	-211
K - C	110	-658	E - G	102	-937

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.49	18.65	4.50
23.75	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.18" DL: 0.16". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Snow loading based on an unobstructed roof. Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

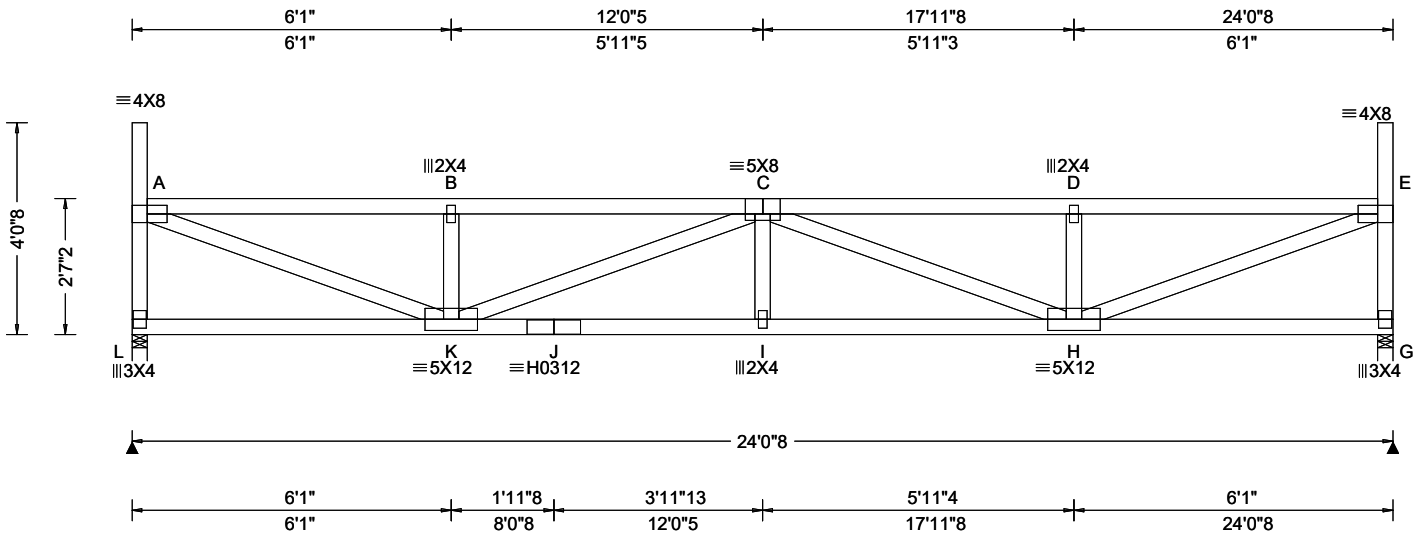
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96239 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T45	Cust: R 9316 JRef: 1XdW93160007 T196 DrwNo: 075.22.1440.31869 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.173 I	999	360
VERT(CL):	0.331 I	870	240
HORZ(LL):	0.032 A	-	-
HORZ(TL):	0.062 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.453
Max BC CSI: 0.714
Max Web CSI: 0.533

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	991	/-	/-	/494	/87	/125
G	991	/-	/-	/494	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.6 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	209	-2110	C - D	208	-2105
B - C	208	-2106	D - E	209	-2109

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	2710	-269	I - H	2710	-269
J - I	2710	-269			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	102	-937	C - H	104	-649
A - K	2173	-207	H - E	2172	-207
K - C	108	-647	E - G	102	-937

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.45	17.27	4.16
23.75	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.17" DL: 0.16". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof. Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

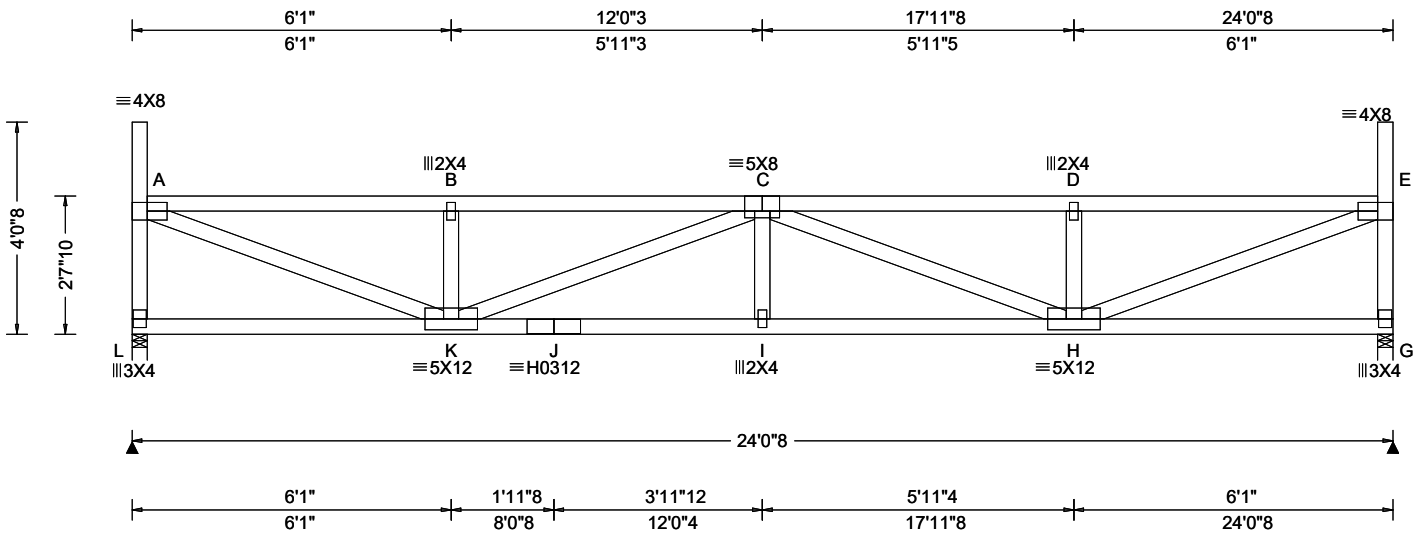
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96241 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T46	Cust: R 9316 JRef: 1XdW93160007 T207 DrwNo: 075.22.1440.30934 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.167	I	999	360
VERT(CL): 0.321	I	900	240
HORZ(LL): 0.032	A	-	-
HORZ(TL): 0.061	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.450
Max BC CSI: 0.703
Max Web CSI: 0.525

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	991	/-	/-	/494	/88	/123
G	991	/-	/-	/494	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.6 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	206	-2073	C - D	205	-2069
B - C	205	-2069	D - E	206	-2073

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	2662	-265	I - H	2662	-265
J - I	2662	-265			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	102	-937	C - H	102	-638
A - K	2139	-203	H - E	2139	-204
K - C	105	-638	E - G	102	-937

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.41	15.89	3.83
23.75	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.17" DL: 0.15". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

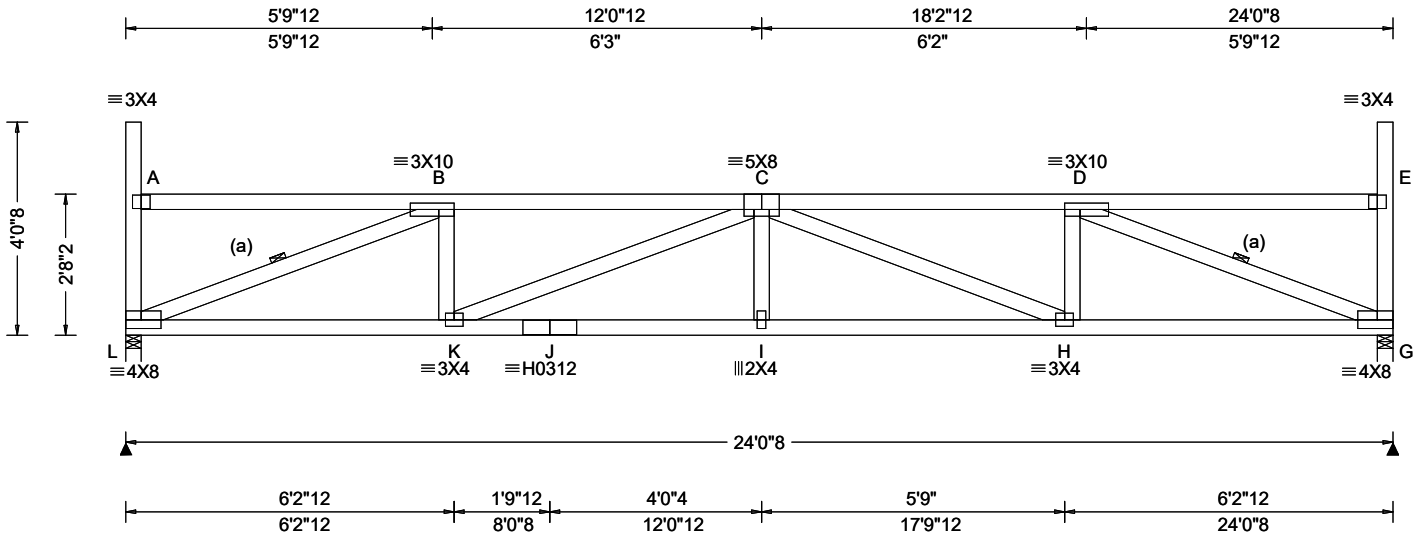
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96243 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T47	Cust: R 9316 JRef: 1XdW93160007 T203 DrwNo: 075.22.1440.31548 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.160	I	999	360
VERT(CL): 0.307	I	939	240
HORZ(LL): 0.047	G	-	-
HORZ(TL): 0.090	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.421
Max BC CSI: 0.692
Max Web CSI: 0.457

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	991	/-	/-	/494	/88	/122
G	991	/-	/-	/494	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.6 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	200	-2040	C - D	199	-2038

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	1995	-291	I - H	2620	-263
K - J	2620	-263	H - G	1993	-185
J - I	2620	-263			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	201	-2121	C - H	104	-630
K - C	105	-627	D - G	200	-2118

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.16" DL: 0.15". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

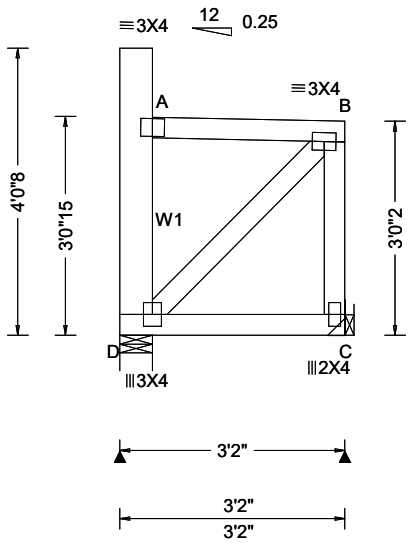
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96245 / MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48	Cust: R 9316 JRef: 1XdW93160007 T197 DrwNo: 075.22.1440.29696 / NDW 03/16/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -
NCBCLL: 0.00	Mean Height: 22.71 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.119
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.041
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.033
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	101	/-	/-	/83	/53	/78
C	125	/-	/-	/119	/47	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Snow loading based on an unobstructed roof. Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

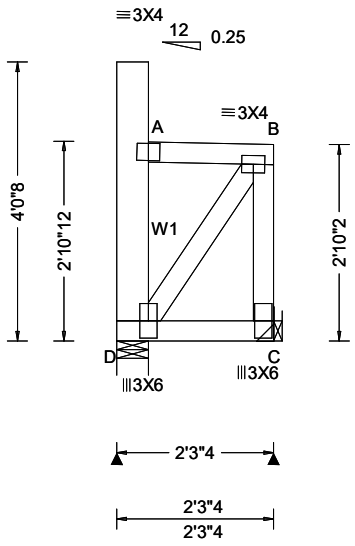
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96247 / MONO FROM:	Ply: 1 Qty: 16	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T49	Cust: R 9316 JRef: 1XdW93160007 T217 DrwNo: 075.22.1440.32173 / NDW 03/16/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -
NCBCLL: 0.00	Mean Height: 22.53 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.056
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.021
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.042
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	66	/-	/-	/80	/78	/80
C	88	/-	/-	/125	/61	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

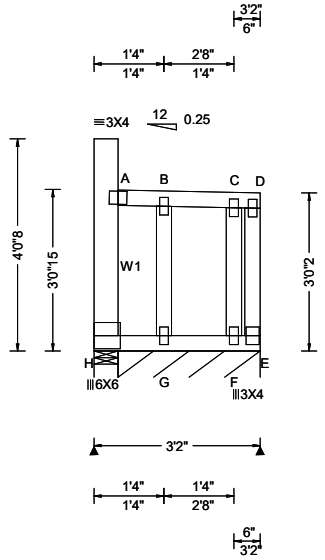
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96253 / GABL FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T51	Cust: R 9316 JRef: 1XdW93160007 T169 DrwNo: 075.22.1440.33463 / NDW 03/16/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.007 A 999 360
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.010 A 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.122 C - -
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.143 B - -
NCBCLL: 0.00	Mean Height: 22.71 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.105
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.293
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.131
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	24	/-	/-	/116	/131	/90
E*	79	/-	/-	/87	/44	/-

Wind reactions based on MWFRS
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 32.5 Min Req = -
Bearings H & H are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

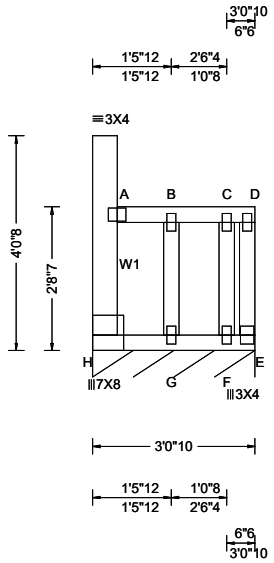
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96257 / GABL FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T52	Cust: R 9316 JRef: 1XdW93160007 T132 DrwNo: 075.22.1521.48610 / NDW 03/16/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.007 A 999 360
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.009 A 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.115 A - -
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.134 A - -
NCBCLL: 0.00	Mean Height: 22.37 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.115
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.323
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.142
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E*	74	/-	/-	/37	/5	/30

Wind reactions based on MWFRS
E Brg Wid = 36.6 Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.34	13.63	2.59

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

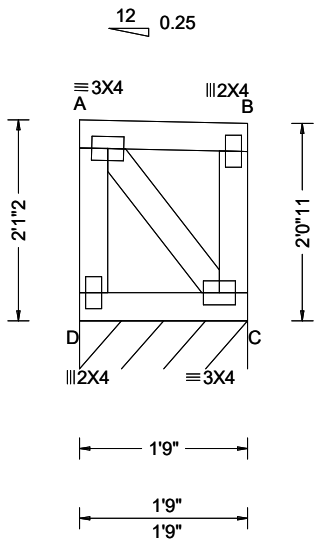
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96259 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE01	Cust: R 9316 JRef: 1XdW93160007 T188 DrwNo: 075.22.1440.34918 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.08 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.042
Max BC CSI: 0.013
Max Web CSI: 0.021

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/41	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 21.0 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

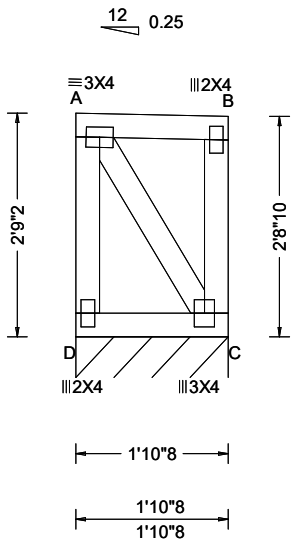
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96291 / MONO FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE1	Cust: R 9316 JRef: 1XdW93160007 T251 DrwNo: 075.22.1440.34462 / NDW 03/16/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.74 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.040 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/41	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

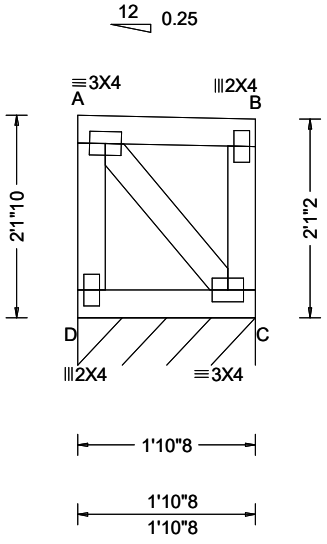
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96261 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE02	Cust: R 9316 JRef: 1XdW93160007 T189 DrwNo: 075.22.1440.30991 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.12 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.049
Max BC CSI: 0.015
Max Web CSI: 0.022

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/41	/5	/18

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

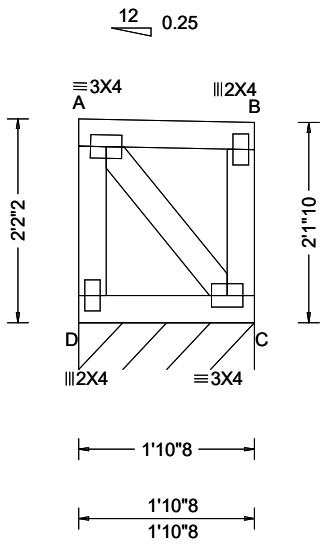
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96263 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE03	Cust: R 9316 JRef: 1XdW93160007 T190 DrwNo: 075.22.1440.32095 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.16 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.049
Max BC CSI: 0.015
Max Web CSI: 0.023

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/41	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

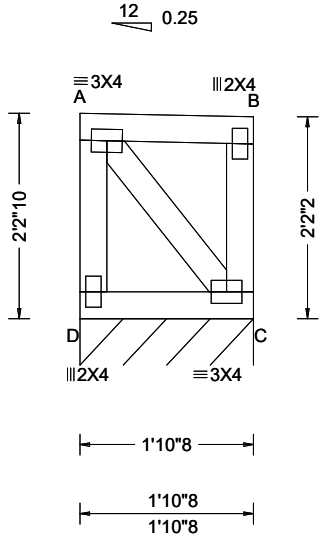
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96265 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE04	Cust: R 9316 JRef: 1XdW93160007 T192 DrwNo: 075.22.1440.29850 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.20 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.049
Max BC CSI: 0.015
Max Web CSI: 0.024

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/41	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

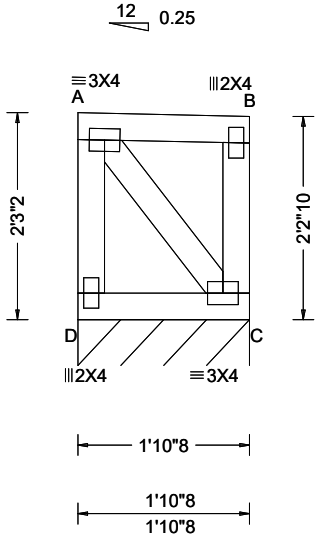
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96267 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE05	Cust: R 9316 JRef: 1XdW93160007 T215 DrwNo: 075.22.1440.32578 / NDW 03/16/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.000 B - -
NCBCLL: 0.00	Mean Height: 21.24 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.049
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.015
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.025
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/41	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

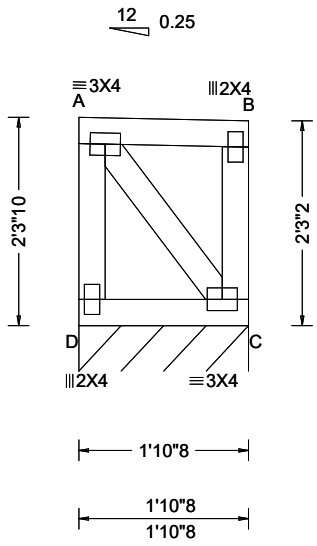
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96269 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE06	Cust: R 9316 JRef: 1XdW93160007 T219 DrwNo: 075.22.1440.31105 / NDW 03/16/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.28 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.026 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/41	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

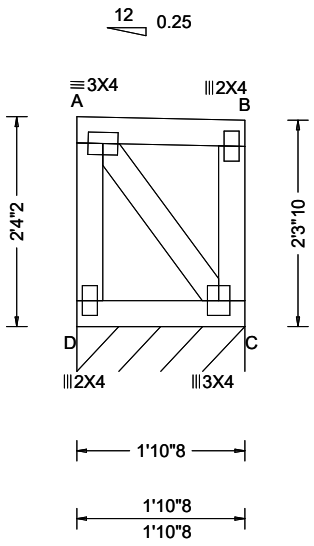
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96271 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE07	Cust: R 9316 JRef: 1XdW93160007 T220 DrwNo: 075.22.1440.29420 / NDW 03/16/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.000 B - -
NCBCLL: 0.00	Mean Height: 21.32 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.049
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.015
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.027
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/41	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

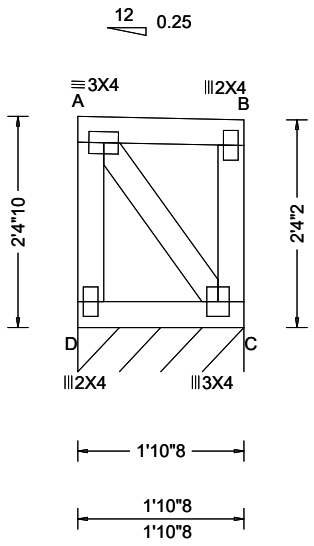
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96273 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE08	Cust: R 9316 JRef: 1XdW93160007 T221 DrwNo: 075.22.1440.33820 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.049
Max BC CSI: 0.015
Max Web CSI: 0.028

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/41	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

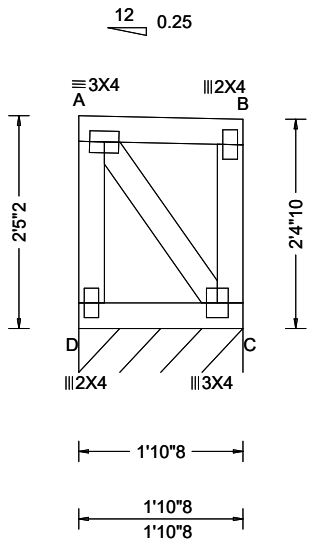
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96275 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE09	Cust: R 9316 JRef: 1XdW93160007 T222 DrwNo: 075.22.1440.35362 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.41 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.049
Max BC CSI: 0.015
Max Web CSI: 0.029

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/41	/5	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

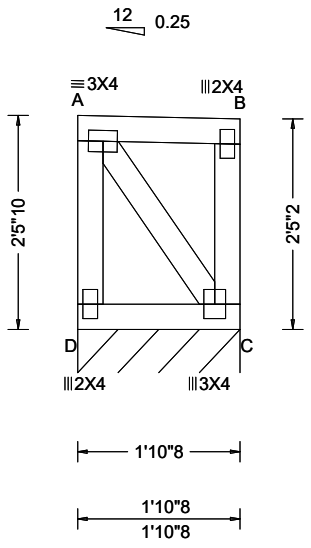
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96277 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE10	Cust: R 9316 JRef: 1XdW93160007 T223 DrwNo: 075.22.1440.32590 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.45 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.049
Max BC CSI: 0.015
Max Web CSI: 0.031

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/41	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

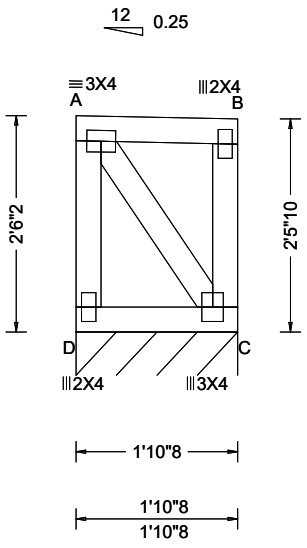
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96279 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE11	Cust: R 9316 JRef: 1XdW93160007 T224 DrwNo: 075.22.1440.29774 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.49 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.049
Max BC CSI: 0.015
Max Web CSI: 0.032

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/41	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

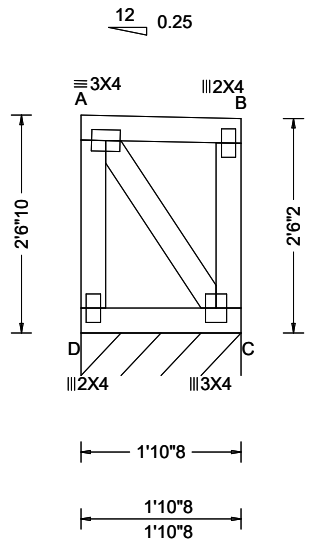
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96281 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE12	Cust: R 9316 JRef: 1XdW93160007 T225 DrwNo: 075.22.1440.30433 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00

NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.049
Max BC CSI: 0.015
Max Web CSI: 0.033

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/41	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

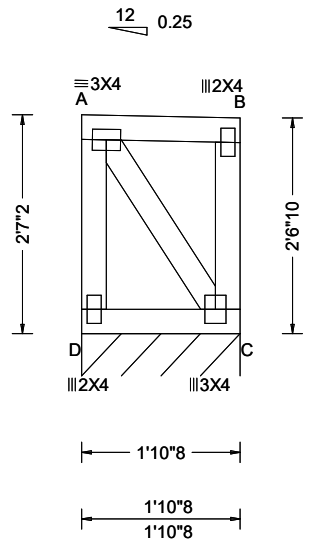
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96283 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE13	Cust: R 9316 JRef: 1XdW93160007 T226 DrwNo: 075.22.1440.30567 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.57 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.049
Max BC CSI: 0.015
Max Web CSI: 0.035

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/41	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

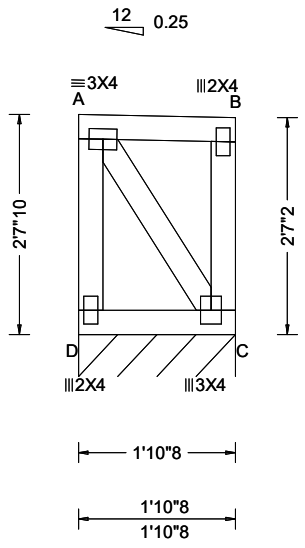
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96285 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE14	Cust: R 9316 JRef: 1XdW93160007 T227 DrwNo: 075.22.1440.34594 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.62 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.049
Max BC CSI: 0.015
Max Web CSI: 0.036

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/41	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

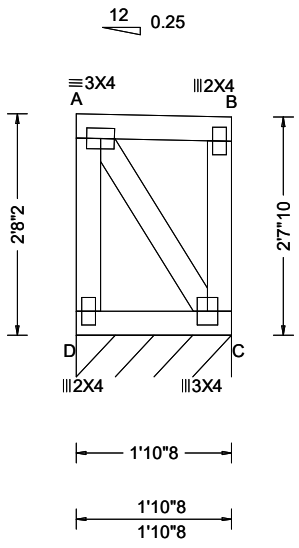
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96287 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE15	Cust: R 9316 JRef: 1XdW93160007 T228 DrwNo: 075.22.1440.30257 / NDW 03/16/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.66 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.049
Max BC CSI: 0.015
Max Web CSI: 0.037

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/41	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

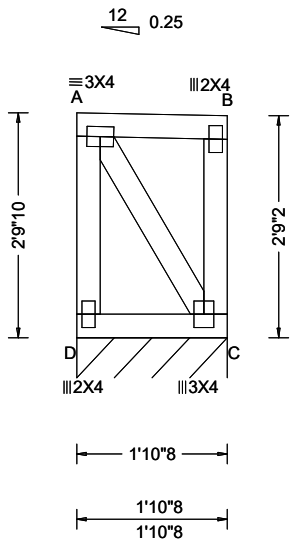
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96293 / MONO FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE16	Cust: R 9316 JRef: 1XdW93160007 T252 DrwNo: 075.22.1440.31786 / NDW 03/16/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.78 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/41	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

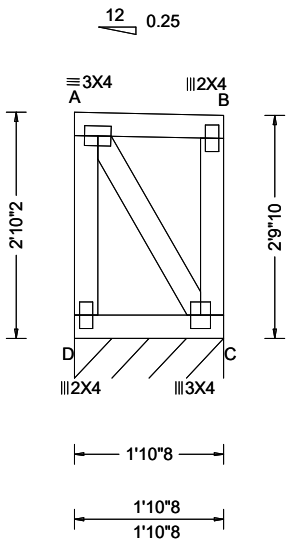
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96295 / MONO FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE17	Cust: R 9316 JRef: 1XdW93160007 T253 DrwNo: 075.22.1440.33562 / NDW 03/16/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.82 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/41	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

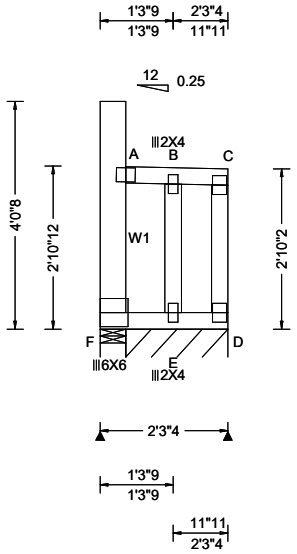
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96251 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE18	Cust: R 9316 JRef: 1XdW93160007 T138 DrwNo: 075.22.1440.29251 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	A	999	360
VERT(CL): 0.009	A	999	240
HORZ(LL): 0.124	B	-	-
HORZ(TL): 0.141	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.111
Max BC CSI: 0.255
Max Web CSI: 0.115

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	15	/-12	/-	/118	/150	/92
D*	89	/-	/-	/127	/70	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 21.7 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 3X4 except as noted.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Provide for complete drainage of roof.
Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

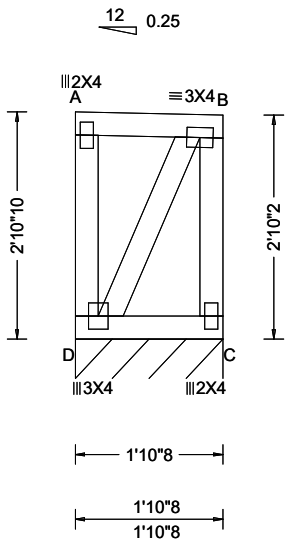
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96297 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE19	Cust: R 9316 JRef: 1XdW93160007 T254 DrwNo: 075.22.1521.48614 / NDW 03/16/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.000 B	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	-0.001 A	-	-
HORZ(TL):	0.001 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.046
Max BC CSI: 0.017
Max Web CSI: 0.043

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	80	/-	/-	/41	/6	/27

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

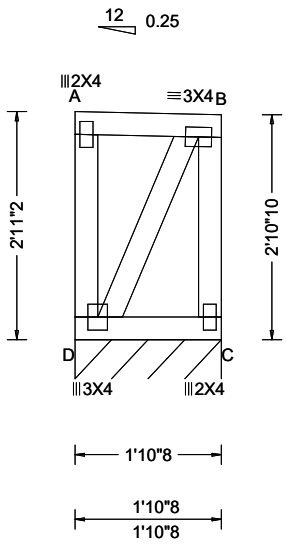
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96299 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE20	Cust: R 9316 JRef: 1XdW93160007 T255 DrwNo: 075.22.1521.48628 / NDW 03/16/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.000 B 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.017 Max Web CSI: 0.044 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	80	/-	/-	/41	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

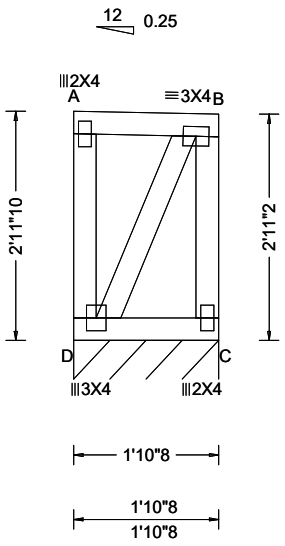
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96301 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE21	Cust: R 9316 JRef: 1XdW93160007 T256 DrwNo: 075.22.1527.41609 / NDW 03/16/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): -0.000 B 999 360
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): -0.001 A - -
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -
NCBCLL: 0.00	Mean Height: 22.62 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.046
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.017
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.046
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	80	/-	/-	/41	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

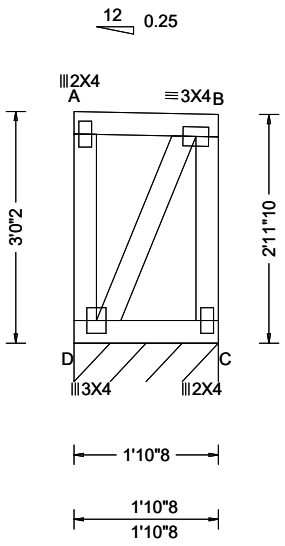
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96317 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE22	Cust: R 9316 JRef: 1XdW93160007 T257 DrwNo: 075.22.1527.41610 / NDW 03/16/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.000 B 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.017 Max Web CSI: 0.047 VIEW Ver: 21.02.00.1005.17

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	80	/-	/-	/41	/6	/29

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

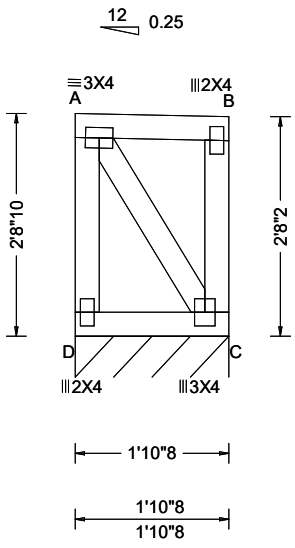
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96289 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220684 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE23	Cust: R 9316 JRef: 1XdW93160007 T231 DrwNo: 075.22.1440.29563 / NDW 03/16/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.038 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	84	/-	/-	/41	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

Gable Stud Reinforcement Detail

ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace **	
				Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" o.c.	SPF HF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"
16" o.c.	SPF HF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

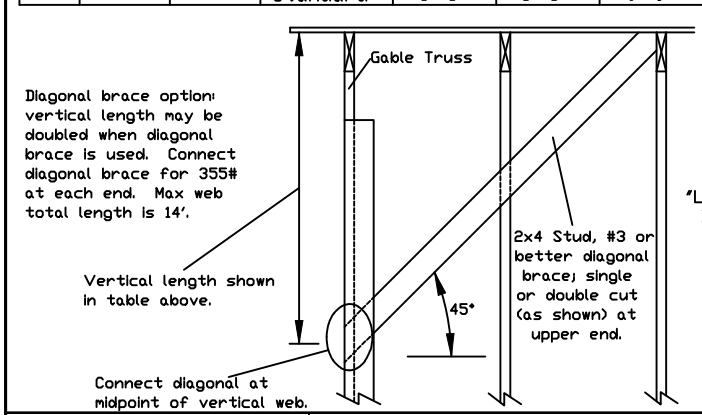
Attach "L" braces with 10d (0.128"x3.0" min) nails.

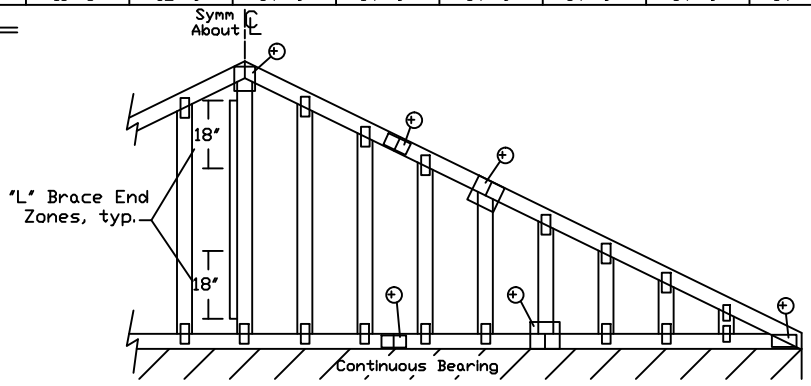
* For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

"L" bracing must be a minimum of 80% of web member length.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 355# at each end. Max web total length is 14'.





Refer to chart above for max gable vertical length.

Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but	2X4
	3X4

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, MO 63045

-16-GAB11530

DATE 6/2018

030ENC160118

MAX. TOT. LD.

MAX. SPACING 24.0"

03/16/2022

Building 4

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforecement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

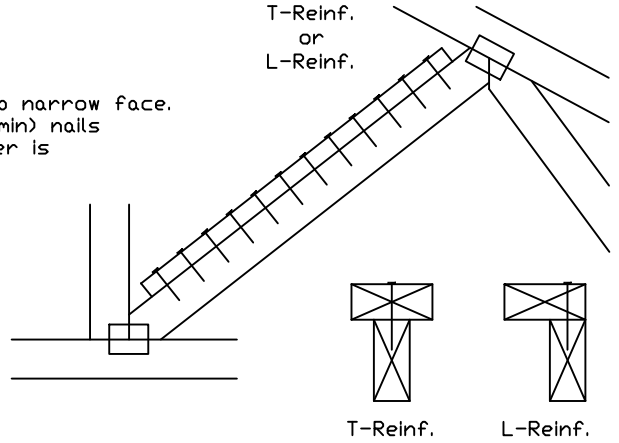
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Alternative Reinforecement Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

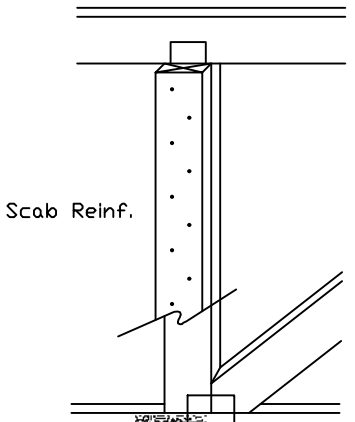
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



ALPINE
AN ITW COMPANY

514 Earth City Expressway
Suite 242
Earth City, MO 63045

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

03/16/2022

TC LL	Subst.
TC DL	DATE /19
BC DL	CLBSUB0119
BC LL	
TOT. LD.	
DUR. FAC.	
SPACING	

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considered less than the design dead load.

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, MO 63045

03/16/2022

EC/CAMB
DATE /14
LCAMB1014

Building 4

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C
Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail for lumber, plates, and other information not shown on this detail.

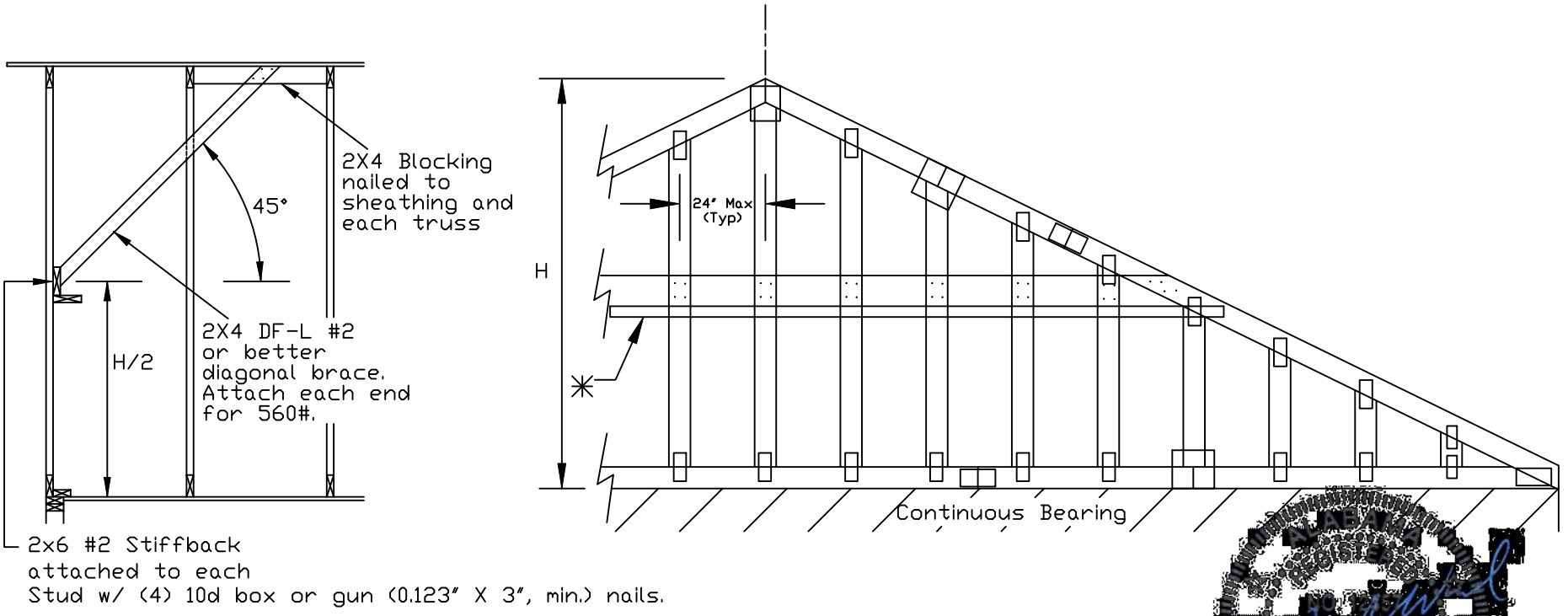
Nails: 10d box or gun (0.128"x3",min) nails.

H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback to roof diaphragm every 6'0" (see detail below or refer to DRWG A12030ENC160118).

H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace to roof diaphragm every 4'0" (see detail below or refer to DRWG A12030ENC160118).

✳ Optional 2x L-reinforcement attached to stiffback with 10d box or gun (0.128" x 3", min.) nails @ 6" o.c.



ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, MO 63045

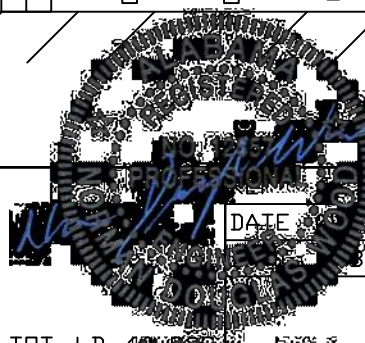
****WARNING!** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

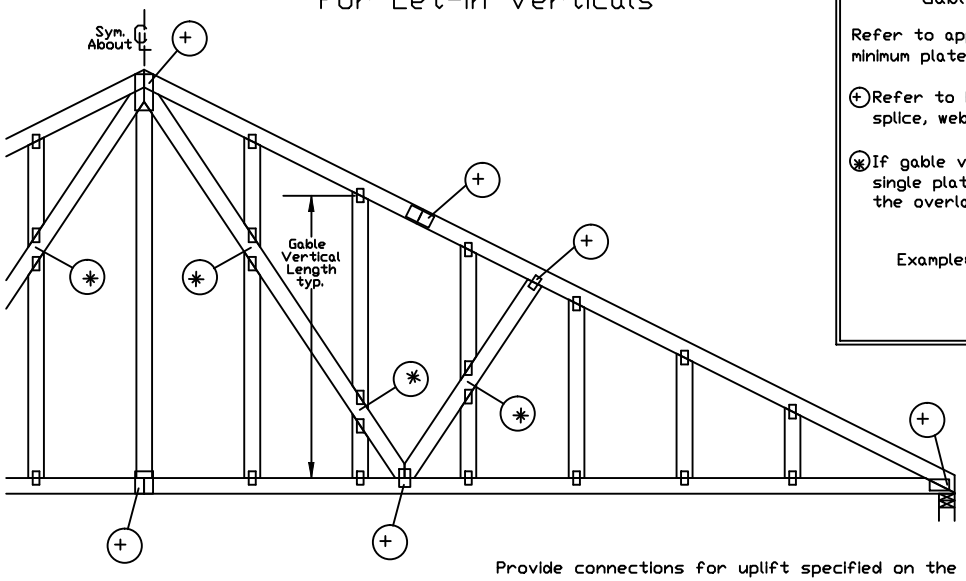


/HALER
DATE /2018
RST160118
MAX. TOT. L.D.
MAX. SPACING

03/16/2022

Building 4

Gable Detail
For Let-in Verticals



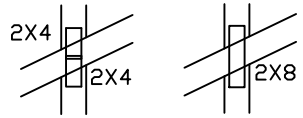
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

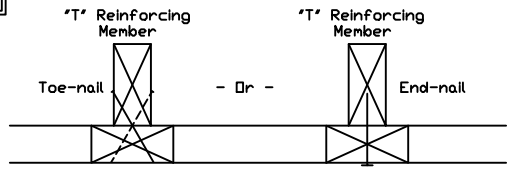
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊛ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



"T" Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:
10d Common (0.148"x 3.",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

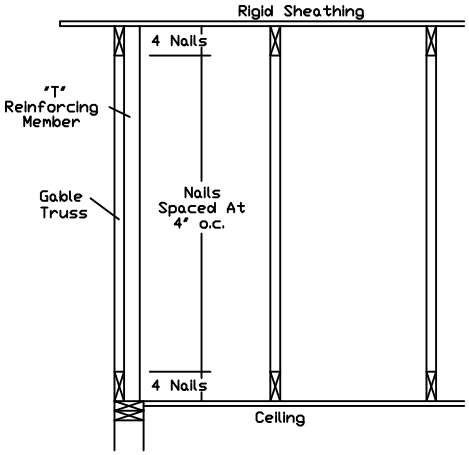
Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

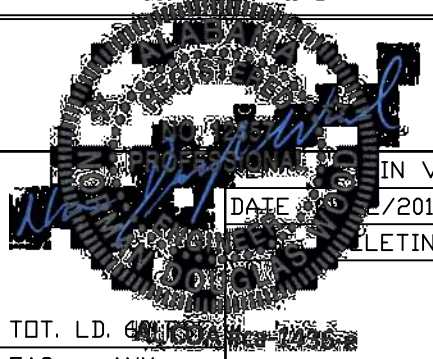
Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24"o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"



****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, MO 63045

03/16/2022

IN VERT
DATE /2018
LETIN0118

MAX. TOT. LD.
DUR. FAC. ANY
MAX. SPACING 24.0"

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 3, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 2

TRANSMITTING:

DESCRIPTION	REMARKS
061753 - Shop-Fabricated Wood Trusses Shop Drawings	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:
- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2101

Building 5

Brinkmann CONSTRUCTORS

Employee-Owned

TRANSMITTAL

Kolten Ragan, Project Engineer
Brinkmann Constructors
11101 Switzer Road, Suite 310
Overland Park, KS 66210

Date: 4/27/2022

To:
TR,i Architects
Attn: Michaela Silva
1790 S Brentwood Blvd
St. Louis, MO 63144

Re: **Vanguard Villas**
2100 NW Lowenstein Dr.
Lee's Summit, MO 64081
Job #: 1399

We are sending:

- ☐ Product Data
- ☐ Reports
- ☑ Shop Drawings
- ☐ Samples
- ☐ Other

Transmitted as checked:

- ☐ For Approval
- ☐ For Your Use
- ☑ As Requested
- ☐ Approved as Submitted
- ☐ Other

Transmitted via:

- ☑ Via email (PDF)
- ☐ Copies to follow (USPS/Ground)

Submittal Number	Description	Date Submitted	Due Date
061753-6-R1	Group 5 Floor & Roof Truss - SD	4/27/2022	5/13/2022

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 5/23/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TR,i ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

Brinkmann Approval

Submittals bearing this stamp have been verified or will be verified as to materials, field measurements and construction criteria related thereto and have been coordinated with the Contract Documents. The Sub-contractor is responsible to the General Contractor for dimensions to be confirmed and correlated at the job site, and for information that pertains to the fabrication process or to the technique of construction and for coordination of the work with all trades.

By: Kolten Ragan **Date:** 4/27/2022

Brinkmann Comments in Green

Building 5

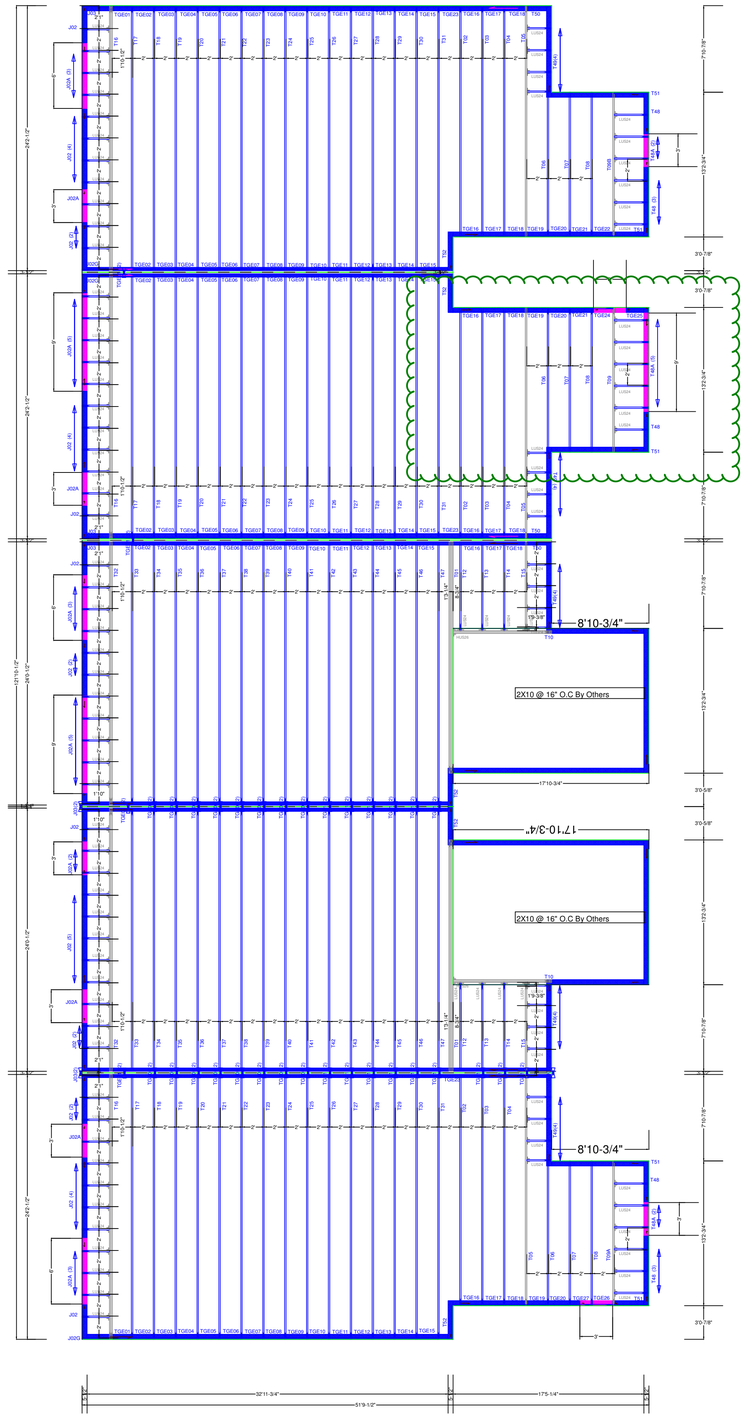
Group 5 Roof Layout

HANGER CHART				
Symbol	Name		Qty	Manufacturer
	=	HUS26	3	Simpson
	=	LUS24	99	Simpson

Total Plan Area with OHs = 5670 sq.ft

Total Truss Quantity = 420.

BEARING WALL & BEAM HEIGHTS
- 19'
- 19'1-3/4"



Revised Per Arch.

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS.

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED, REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/03/2022 BY: MJF

ROOF TRUSS LAYOUT (NTS)

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

Job Name: McCambridge Brothers Construction

Designer: Juan R Quiroz

Date: 4/22/2022

Reference #: JB-220686

mill Creek
3363 S. Hatteberg Rd.
Harrisonville, MO 64701
(816) 830-6108

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

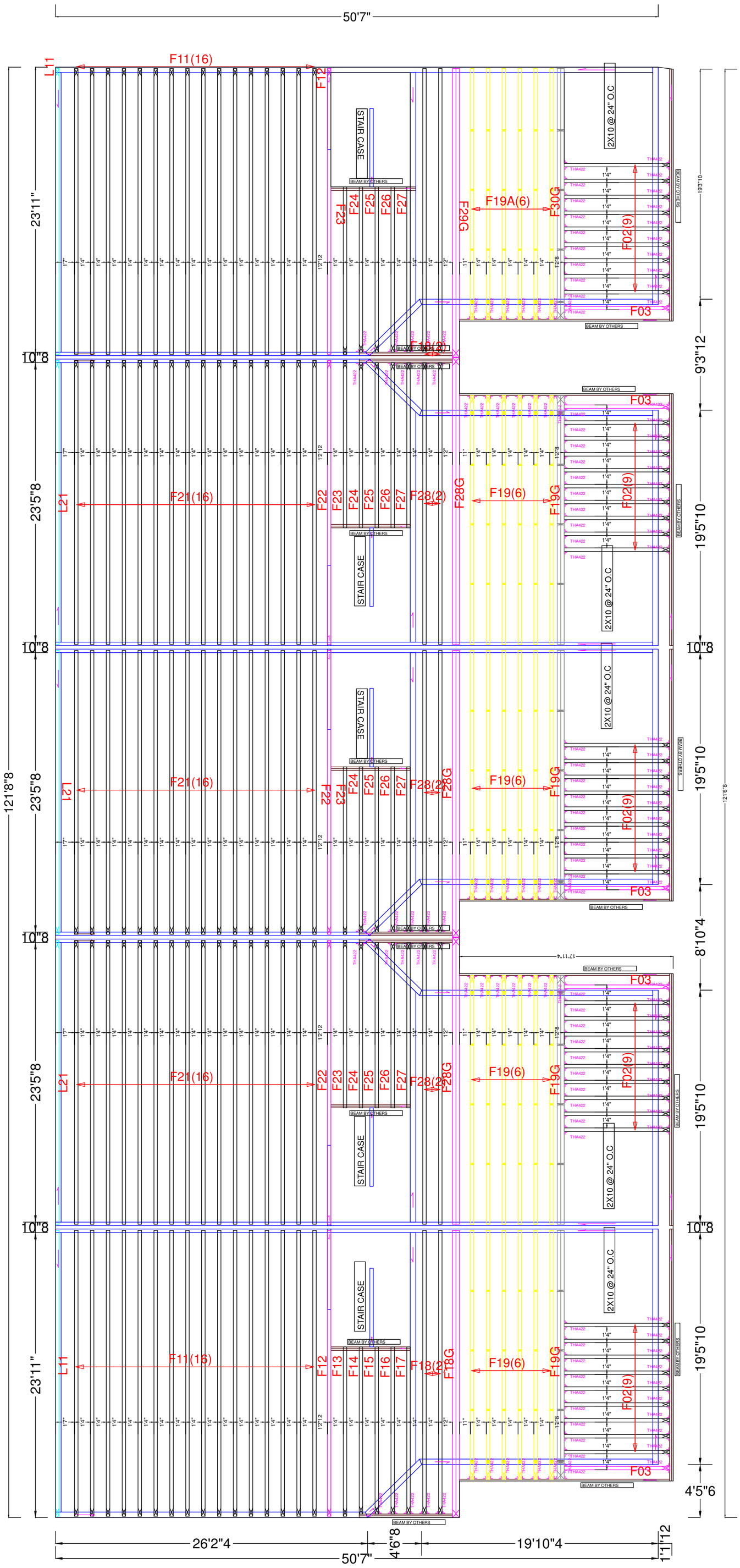
Group 5 Floor Layout

Total Truss Quantity = 225.

Total Plan Area with OHs = 5429 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
=	THA422	159	Simpson
=	THA422-2	5	Simpson



DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

mill Creek
3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-6108

Job Name:

McCambridge Brothers Construction

Customer:

MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Designer: Juan R Quiroz

Address:
2100 NW Lowenstein Dr
Lee's Summit
MO

Reference #: JB-220685

Date: 3/17/2022

Building 5

Revised Per BDC comment

ALPINE
AN ITW COMPANY

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

04/26/2022

Site Information:	Page 1:
Customer: Mill Creek Truss	*Job Number:* JB-220685
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1Xf193160001
Wind Standard: ASCE716 *Wind Speed (mph):* 0 *Building Type:*	*Design Loading (psf):* 75.00

This package contains general notes pages, 27 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	116.22.0934.25760	F02
3	116.22.0934.26523	F11
5	116.22.0934.26230	F13
7	116.22.0934.26165	F15
9	116.22.0934.26548	F17
11	116.22.0934.26454	F18G
13	116.22.0934.26817	F19A
15	116.22.0934.25775	F21
17	116.22.0934.26136	F23
19	116.22.0934.26366	F25
21	116.22.0934.25861	F27
23	116.22.0934.25795	F28G
25	116.22.0934.26843	F30G
27	116.22.0934.26342	L21
29	DEFLCAMB1014	
31	STRBRIBR1014	

Item	Drawing Number	Truss
2	116.22.0934.26204	F03
4	116.22.0934.26731	F12
6	116.22.0934.26064	F14
8	116.22.0934.26423	F16
10	116.22.0934.25834	F18
12	116.22.0934.26596	F19
14	116.22.0934.26616	F19G
16	116.22.0934.26555	F22
18	116.22.0934.25793	F24
20	116.22.0934.25842	F26
22	116.22.0934.25833	F28
24	116.22.0934.26869	F29G
26	116.22.0934.26285	L11
28	CNSY42PL0118	
30	LSCSYX2A1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

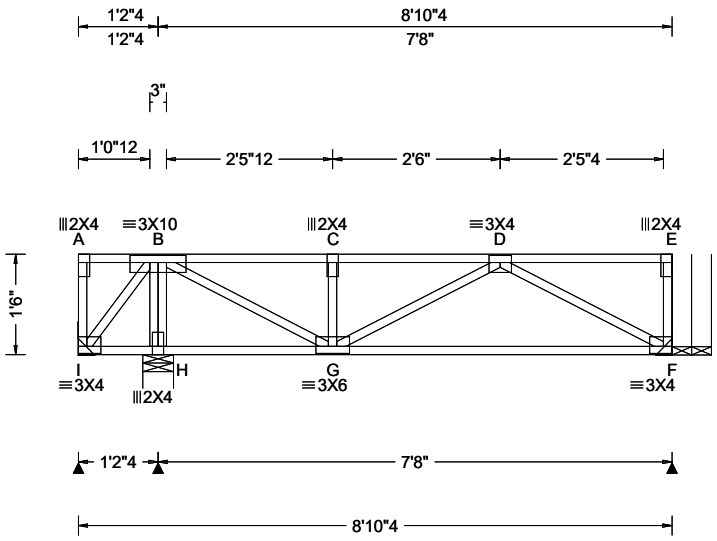
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 5

SEQN: 96773 / SY42 FROM:	Ply: 1 Qty: 45	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F02	Cust: R 9316 JRef: 1Xf193160001 T6 DrwNo: 116.22.0934.25760 / NDW 04/26/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.018	C	999	480
VERT(CL): 0.034	C	999	360
HORZ(LL): 0.002	F	-	-
HORZ(TL): 0.004	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.299
Max BC CSI: 0.301
Max Web CSI: 0.162

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	28	/-43	/-	/-	/-	/-
H	525	/-	/-	/-	/-	/-
F	372	/-	/-	/-	/-	/-

I Brg Wid = - Min Req = -
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
F Brg Wid = - Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-485	C - D	0	-485

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	473	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - H	0	-499	D - F	0	-537
B - G	576	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

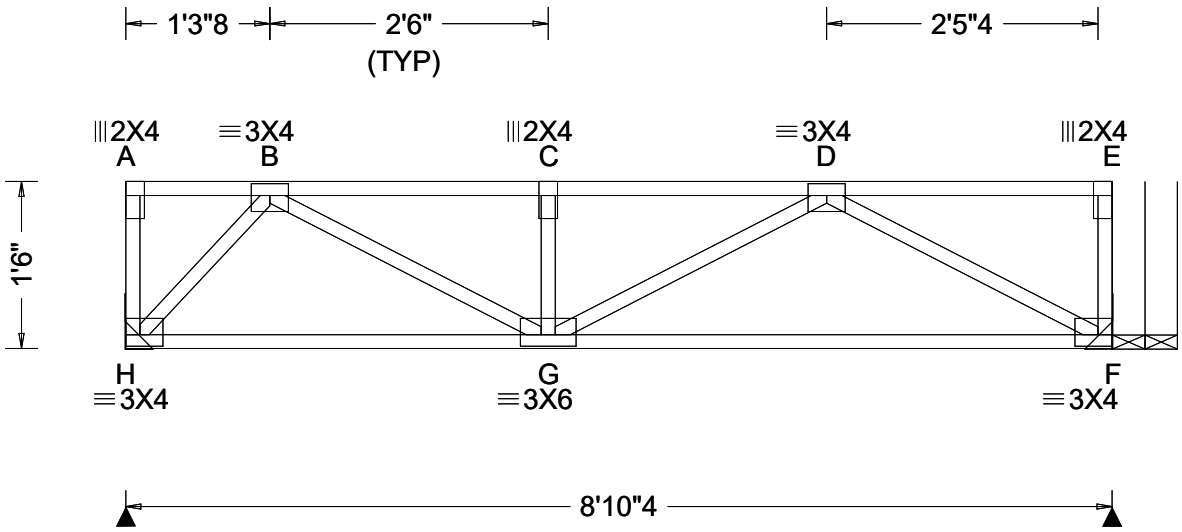
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96775 / SY42 FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F03	Cust: R 9316 JRef:1Xf193160001 T7 / DrwNo: 116.22.0934.26204 / NDW 04/26/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.024	C	999	480
VERT(CL): 0.046	C	999	360
HORZ(LL): 0.004	B	-	-
HORZ(TL): 0.008	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.298
Max BC CSI: 0.324
Max Web CSI: 0.141

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	443	/-	/-	/-	/-	/-
F	443	/-	/-	/-	/-	/-

H Brg Wid = - Min Req = -
F Brg Wid = - Min Req = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-747	C - D	0	-747

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	606	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - B	0	-546	D - F	0	-687
B - G	426	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

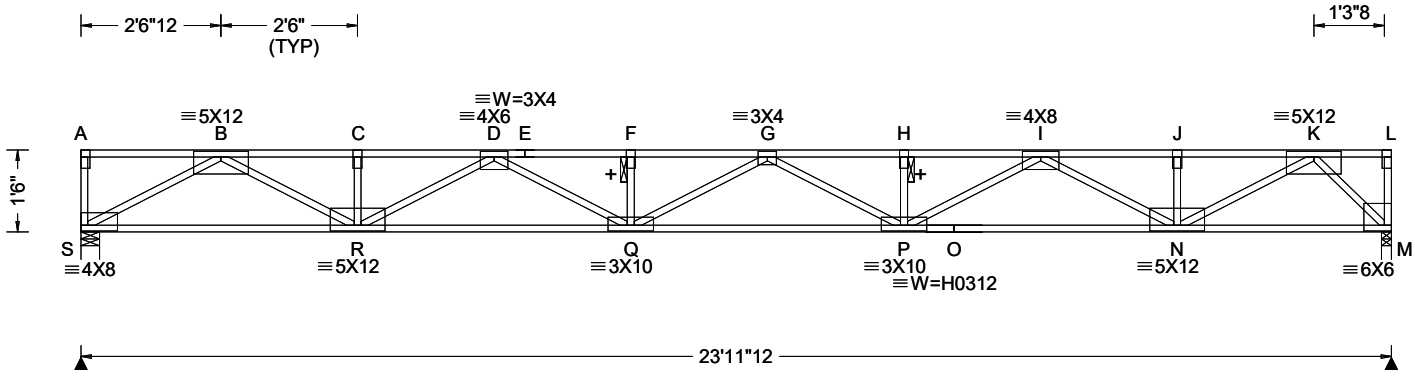
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 96777 / SY42 FROM:	Ply: 1 Qty: 32	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F11	Cust: R 9316 JRef:1Xf193160001 T28 / DrwNo: 116.22.0934.26523 / NDW 04/26/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.414	G	695	480
VERT(CL): 0.775	G	371	360
HORZ(LL): 0.057	M	-	-
HORZ(TL): 0.107	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.398
Max BC CSI: 0.672
Max Web CSI: 0.551

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	1199	/-	/-	/-	/-	/-
M	1199	/-	/-	/-	/-	/-

S Brg Wid = 4.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3522	G - H	0	-4917
C - D	0	-3522	H - I	0	-4917
D - E	0	-5123	I - J	0	-2895
E - F	0	-5123	J - K	0	-2895
F - G	0	-5123			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	2010	0	P - O	4106	0
R - Q	4523	0	O - N	4106	0
Q - P	5219	0	N - M	1183	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2281	P - I	925	0
B - R	1725	0	I - N	0	-1382
R - D	0	-1143	N - K	1954	0
D - Q	684	0	K - M	0	-1648

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

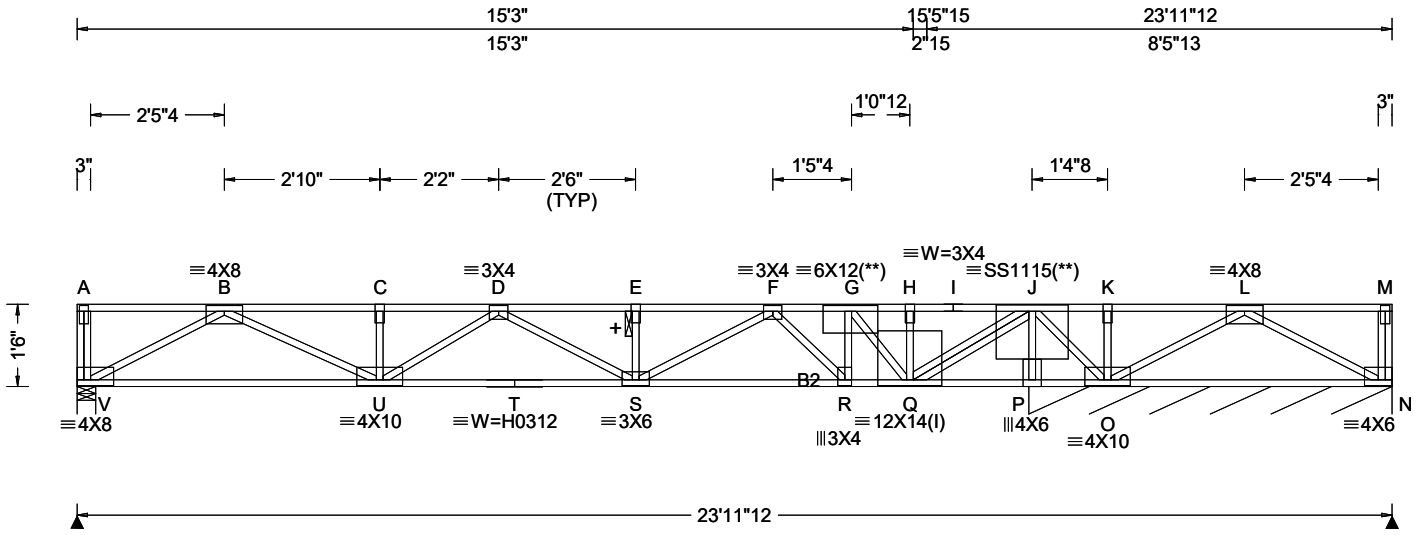
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96779 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F12	Cust: R 9316 JRef: 1Xf193160001 T1 / DrwNo: 116.22.0934.26731 / NDW 04/26/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.201 E	999	480
VERT(CL):	0.377 E	545	360
HORZ(LL):	0.029 B	-	-
HORZ(TL):	0.054 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.946
Max BC CSI: 0.960
Max Web CSI: 0.568

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	443	/-	/-	/-	/-	/-
N		/-304				

V Brg Wid = 4.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2615	G - H	0	-818
C - D	0	-2615	H - I	0	-818
D - E	0	-3202	I - J	0	-818
E - F	0	-3202	J - K	2031	0
F - G	0	-2426	K - L	2031	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1461	0	R - Q	2382	0
U - T	3059	0	Q - P	0	-2607
T - S	3059	0	P - O	0	-2607
S - R	2851	0	O - N	0	-784

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1680	G - Q	0	-2558
B - U	1283	0	Q - J	4025	0
U - D	0	-526	J - P	0	-2889
S - F	401	0	J - O	816	0
F - R	0	-615	O - L	0	-1423
R - G	488	0	L - N	897	0

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.98
BC: From 13 plf at 0.00 to 13 plf at 23.98
TC: 1500 lb Conc. Load at 14.06

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

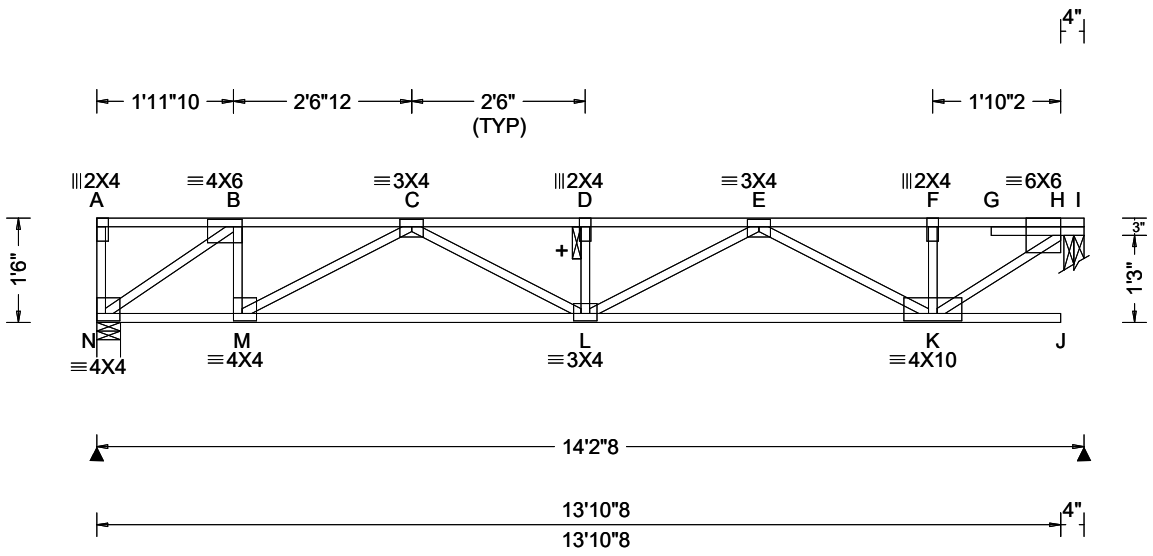
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96781 / SY42 FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F13	Cust: R 9316 JRef:1Xf193160001 T23 / DrwNo: 116.22.0934.26230 / NDW 04/26/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.096	D	999	480
VERT(CL): 0.179	D	942	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.030	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.620
Max BC CSI: 0.537
Max Web CSI: 0.329

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	702	/-	/-		/-	/-	/-
H	714	/-	/-		/-	/-	/-

N Brg Wid = 4.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-943	E - F	0	-943
C - D	0	-1836	F - H	0	-942
D - E	0	-1836			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	905	0	L - K	1574	0
M - L	1582	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1104	E - K	0	-721
B - M	416	0	K - H	1166	0
M - C	0	-734			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

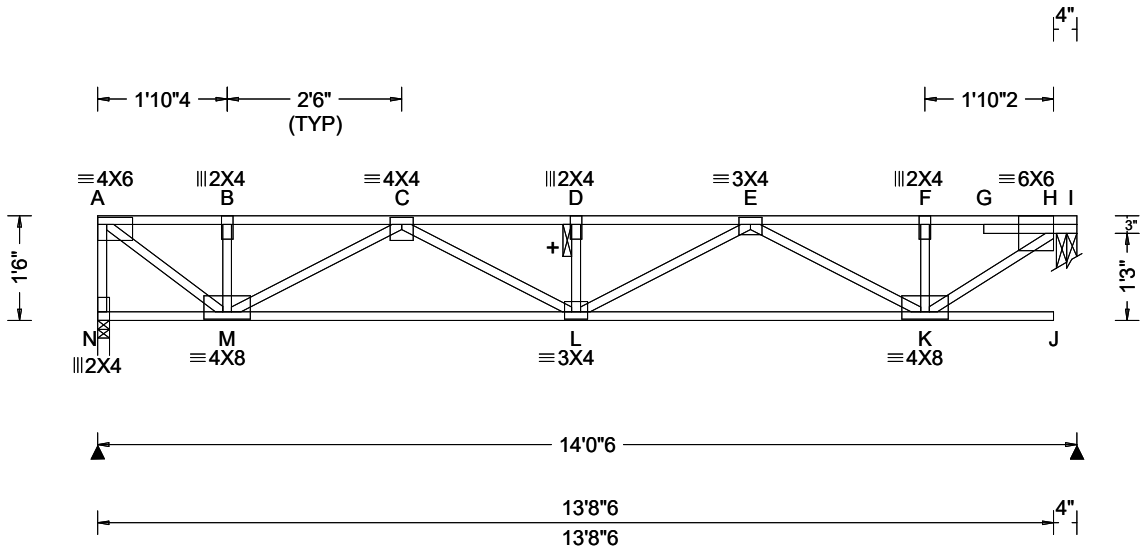
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96783 / SY42 FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F14	Cust: R 9316 JRef:1Xf193160001 T15 / DrwNo: 116.22.0934.26064 / NDW 04/26/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.093	D	999	480
VERT(CL): 0.174	D	955	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.612
Max BC CSI: 0.524
Max Web CSI: 0.324

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	693	/-	/-		/-	/-	/-
H	706	/-	/-		/-	/-	/-

N Brg Wid = 2.0 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-849	D - E	0	-1791
B - C	0	-849	E - F	0	-929
C - D	0	-1791	F - H	0	-929

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1520	0	L - K	1546	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-690	E - K	0	-703
A - M	1057	0	K - H	1150	0
M - C	0	-766			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

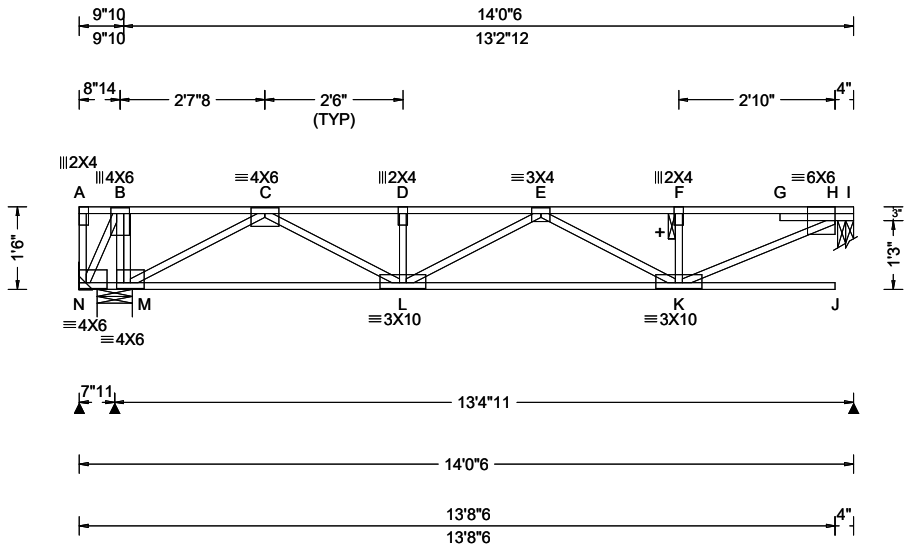
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96787 / SY42 FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F15	Cust: R 9316 JRef:1Xf193160001 T26 / DrwNo: 116.22.0934.26165 / NDW 04/26/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.200	J	780	480
VERT(CL): 0.320	J	487	360
HORZ(LL): 0.011	C	-	-
HORZ(TL): 0.020	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.961
Max BC CSI: 0.588
Max Web CSI: 0.339

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-708	/-	/-	/-	/-
N	1480	/-	/-	/-	/-	/-
H	618	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
N Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	400	0	E - F	0	- 1087
C - D	0	- 1207	F - H	0	- 1088
D - E	0	- 1207			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	600	0	L - K	1318	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	685	0	C - L	693	0
B - M	0	- 840	K - H	1201	0
M - C	0	- 1141			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -708# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

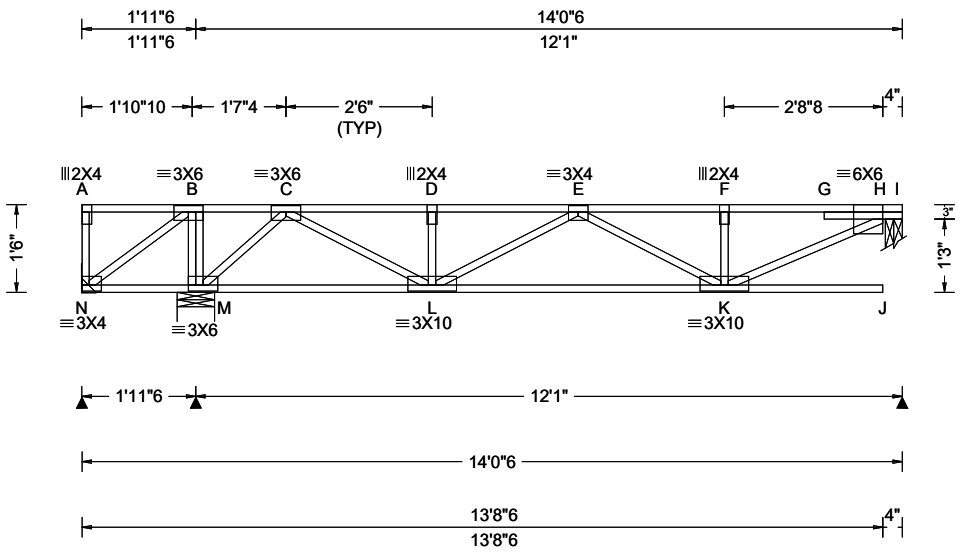
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96789 / SY42 FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F16	Cust: R 9316 JRef: 1Xf193160001 T33 / DrwNo: 116.22.0934.26423 / NDW 04/26/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.159 J	897	480
VERT(CL):	0.249 J	570	360
HORZ(LL):	0.007 C	-	-
HORZ(TL):	0.013 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.283

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-323	/-	/-	/-	/-
M	1131	/-	/-	/-	/-	/-
I	547	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	511	0	E - F	0	-901
C - D	0	-818	F - H	0	-903
D - E	0	-818			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-469	L - K	1034	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	580	0	C - L	816	0
B - M	0	-512	K - H	1004	0
M - C	0	-842			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

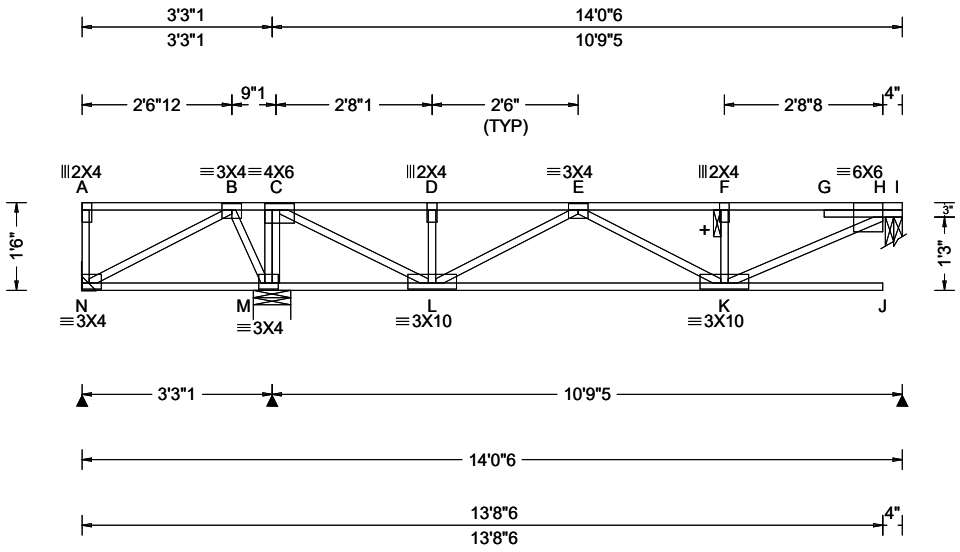
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96791 / SY42 FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F17	Cust: R 9316 JRef: 1Xf193160001 T20 / DrwNo: 116.22.0934.26548 / NDW 04/26/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	870	480
VERT(CL): 0.233	J	550	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.749
Max BC CSI: 0.437
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	57	/-122	/-	/-	/-	/-
M	959	/-	/-	/-	/-	/-
I	491	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	423	0	E - F	0	-784
C - D	0	-500	F - H	0	-785
D - E	0	-500			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	818	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	-627	K - H	874	0
C - L	963	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

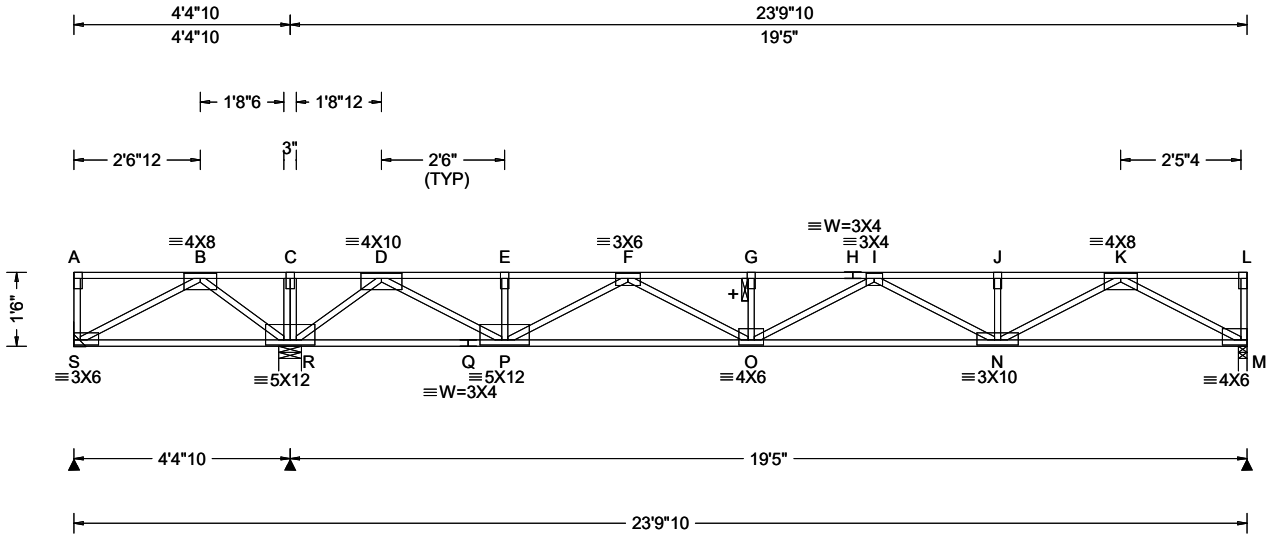
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96793 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18	Cust: R 9316 JRef: 1Xf193160001 T16 / DrwNo: 116.22.0934.25834 / NDW 04/26/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	G	999	480
VERT(CL): 0.371	G	628	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.796
Max Web CSI: 0.466

VIEW Ver: 21.02.00.1005.17

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	-	/-458	/-	/-	/-	/-
R	1886	/-	/-	/-	/-	/-
M	844	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1750	0	G - H	0	-2537
C - D	1750	0	H - I	0	-2537
D - E	0	-1040	I - J	0	-2220
E - F	0	-1040	J - K	0	-2220
F - G	0	-2537			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	-955	P - O	1987	0
R - Q	0	-427	O - N	2580	0
Q - P	0	-427	N - M	1352	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1084	0	F - O	631	0
B - R	0	-1117	I - N	0	-411
R - D	0	-1648	N - K	991	0
D - P	1653	0	K - M	0	-1535
P - F	0	-1085			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -458# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

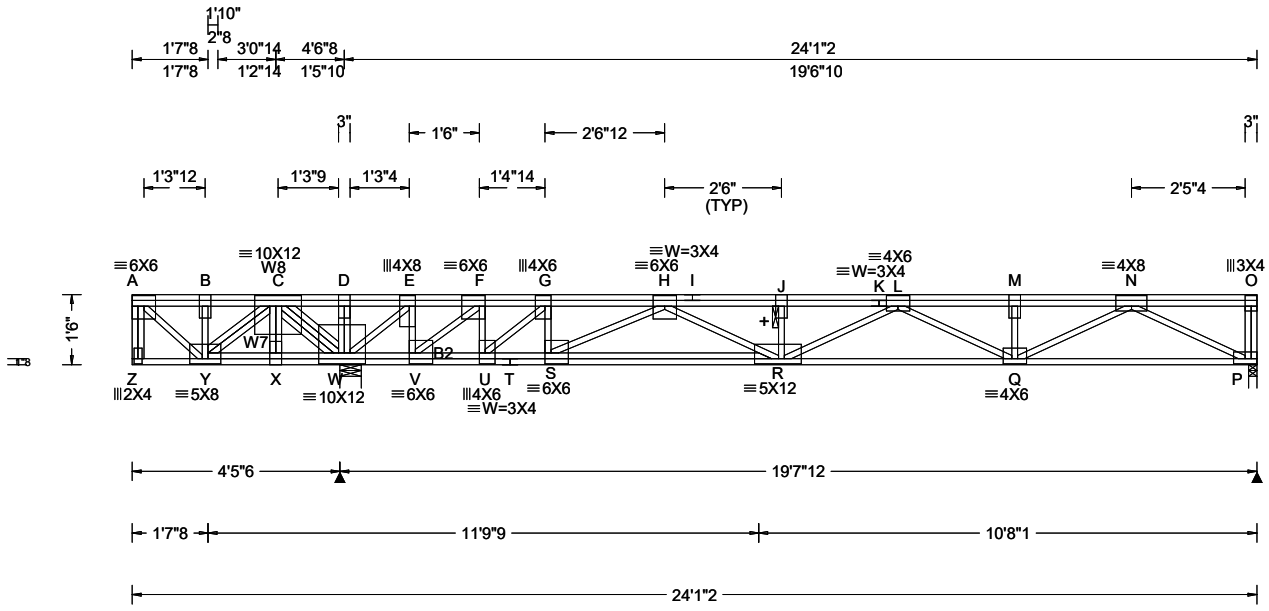
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96795 / SY42 FROM:	Ply: 2 Qty: 1	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18G	Cust: R 9316 JRef: 1Xf193160001 T17 / DrwNo: 116.22.0934.26454 / NDW 04/26/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.124	Z	435	480
VERT(CL): 0.263	Z	408	360
HORZ(LL): -0.027	A	-	-
HORZ(TL): 0.058	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.885
Max BC CSI: 0.247
Max Web CSI: 0.249

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
W	8317	/-	/-	/-	/-	/-
P	962	/-165	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	420	0	H - I	1554	-1705
B - C	420	0	I - J	1554	-1705
C - D	4753	0	J - K	1551	-1711
D - E	4749	0	K - L	1551	-1711
E - F	4209	-367	L - M	534	-1347
F - G	3615	-827	M - N	534	-1347
G - H	3087	-1193			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	-1228	T - S	1169	-3130
X - W	0	-1219	S - R	1563	-2265
W - V	329	-4254	R - Q	1631	-993
V - U	793	-3663	Q - P	784	-222
U - T	1169	-3130			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	-548	G - S	539	0
Y - C	1053	0	S - H	0	-1139
C - W	0	-4787	H - R	869	0
W - E	0	-999	R - L	89	-626
E - V	636	0	L - Q	518	-321
V - F	0	-1035	Q - N	636	-353
F - U	652	0	N - P	250	-860
U - G	0	-919			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7,W8 4x2 DF-L 2400f-2.0E;

Revised per BDC comment

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes

All plates are 3X6 except as noted.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

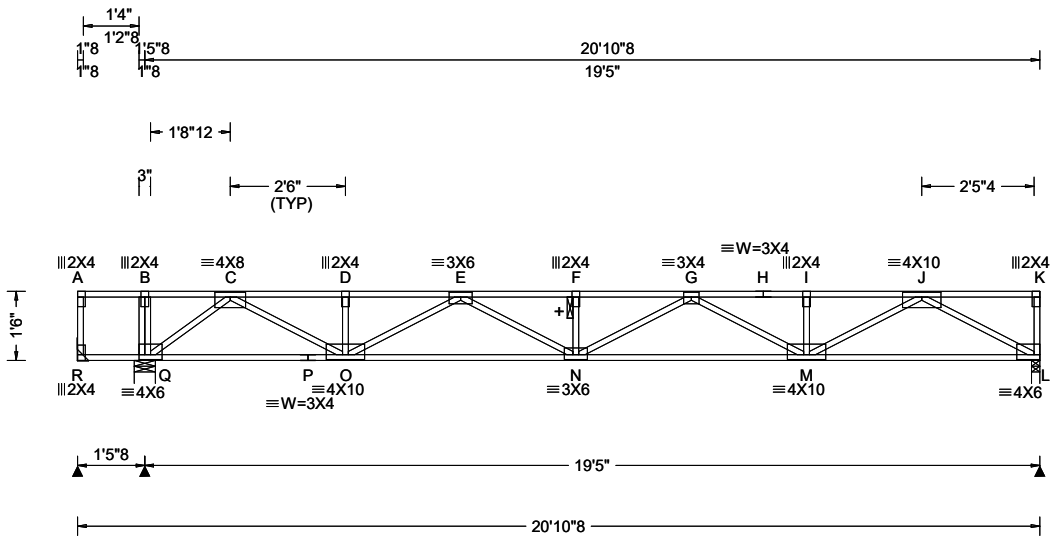
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 9778 / SY42 FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19	Cust: R 9316 JRef: 1Xf193160001 T34 / DrwNo: 116.22.0934.26596 / NDW 04/26/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.246	F	943	480
VERT(CL): 0.462	F	502	360
HORZ(LL): 0.038	L	-	-
HORZ(TL): 0.072	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.485
Max BC CSI: 0.960
Max Web CSI: 0.397

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	27	/-42	/-	/-	/-	/-
Q	1134	/-	/-	/-	/-	/-
L	962	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-2320	G - H	0	-2651
D - E	0	-2320	H - I	0	-2651
E - F	0	-3393	I - J	0	-2651
F - G	0	-3393			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1089	0	N - M	3224	0
P - O	1089	0	M - L	1570	0
O - N	3055	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - C	0	-1383	G - M	0	-654
C - O	1407	0	M - J	1233	0
O - E	0	-839	J - L	0	-1782
E - N	387	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

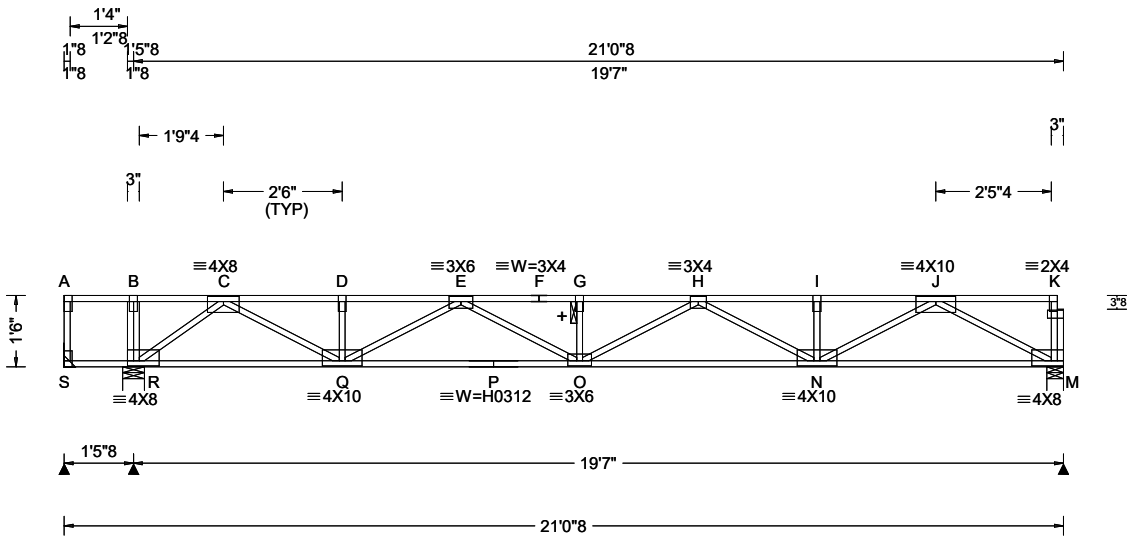
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 9780 / SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19A	Cust: R 9316 JRef: 1Xf193160001 T21 / DrwNo: 116.22.0934.26817 / NDW 04/26/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.245	G	948	480
VERT(CL): 0.459	G	505	360
HORZ(LL): 0.038	M	-	-
HORZ(TL): 0.072	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.484
Max BC CSI: 0.955
Max Web CSI: 0.394

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	27	/-42	/-	/-	/-	/-
R	1133	/-	/-	/-	/-	/-
M	979	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 4.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-2332	G - H	0	-3387
D - E	0	-2332	H - I	0	-2625
E - F	0	-3387	I - J	0	-2625
F - G	0	-3387			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	1110	0	O - N	3207	0
Q - P	3058	0	N - M	1535	0
P - O	3058	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
R - C	0	-1398	H - N	0	-664
C - Q	1397	0	N - J	1245	0
Q - E	0	-829	J - M	0	-1753
E - O	376	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.24" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

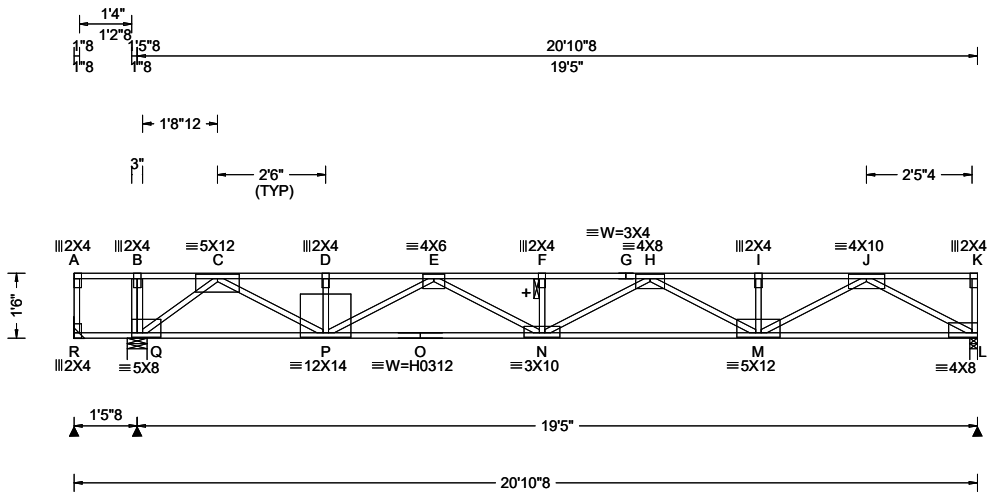
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 9782 / SY42 FROM:	Ply: 2 Qty: 4	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19G	Cust: R 9316 JRef:1Xf193160001 T8 / DrwNo: 116.22.0934.26616 / NDW 04/26/2022

2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.290 F 799 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.545 F 426 360
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.041 C - -
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.076 C - -
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.583
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.585
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Varies by Ld Case	Max Web CSI: 0.629
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	
	I: NA GCpi: NA	WAVE, HS	VIEW Ver: 21.02.00.1005.17
	Wind Duration: NA		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	24	/-58	/-	/-	/-	/-
Q	3942	/-	/-	/-	/-	/-
L	1997	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-3789	G - H	0	-5138
D - E	0	-3789	H - I	0	-3219
E - F	0	-5138	I - J	0	-3219
F - G	0	-5138			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1835	0	N - M	4478	0
P - O	4877	0	M - L	1748	0
O - N	4877	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - Q	0	-465	F - N	0	-473
Q - C	0	-2340	N - H	753	0
C - P	2229	0	H - M	0	-1437
D - P	0	-467	M - J	1679	0
P - E	0	-1242	J - L	0	-1984

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 20.88
BC: From 13 plf at 0.00 to 13 plf at 20.88
TC: 443 lb Conc. Load at 0.94
TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27 7.60, 8.94,10.27,11.60,12.94

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

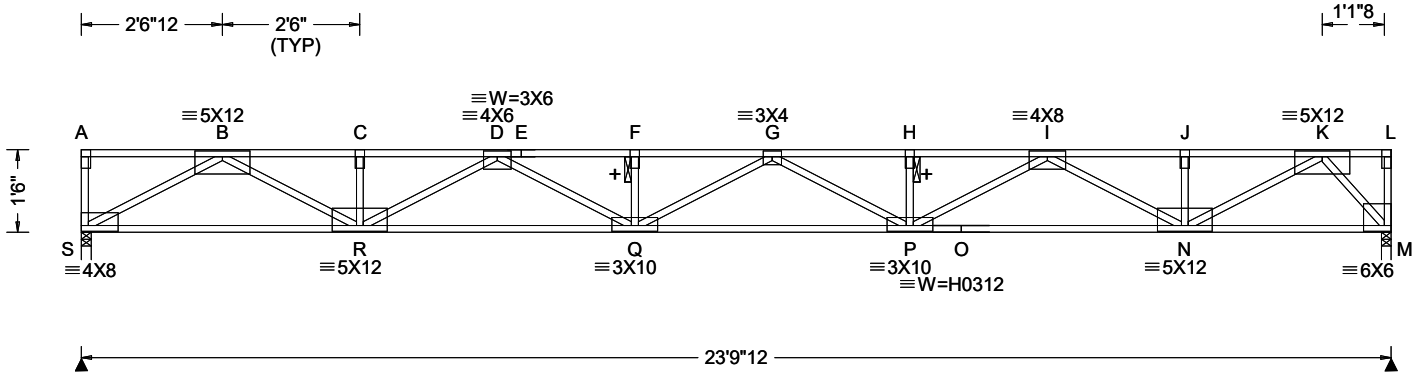
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96797 / SY42 FROM:	Ply: 1 Qty: 48	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F21	Cust: R 9316 JRef: 1Xf193160001 T19 / DrwNo: 116.22.0934.25775 / NDW 04/26/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.419	G	682	480
VERT(CL): 0.785	G	364	360
HORZ(LL): 0.056	M	-	-
HORZ(TL): 0.104	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.442
Max BC CSI: 0.664
Max Web CSI: 0.556

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	1191	/-	/-	/-	/-	/-
M	1191	/-	/-	/-	/-	/-

S Brg Wid = 2.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3491	G - H	0	-4826
C - D	0	-3491	H - I	0	-4826
D - E	0	-5062	I - J	0	-2773
E - F	0	-5062	J - K	0	-2773
F - G	0	-5062			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	1995	0	P - O	4000	0
R - Q	4479	0	O - N	4000	0
Q - P	5145	0	N - M	1047	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2264	P - I	942	0
B - R	1707	0	I - N	0	-1401
R - D	0	-1127	N - K	1969	0
D - Q	665	0	K - M	0	-1557

Lumber
Top chord: 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

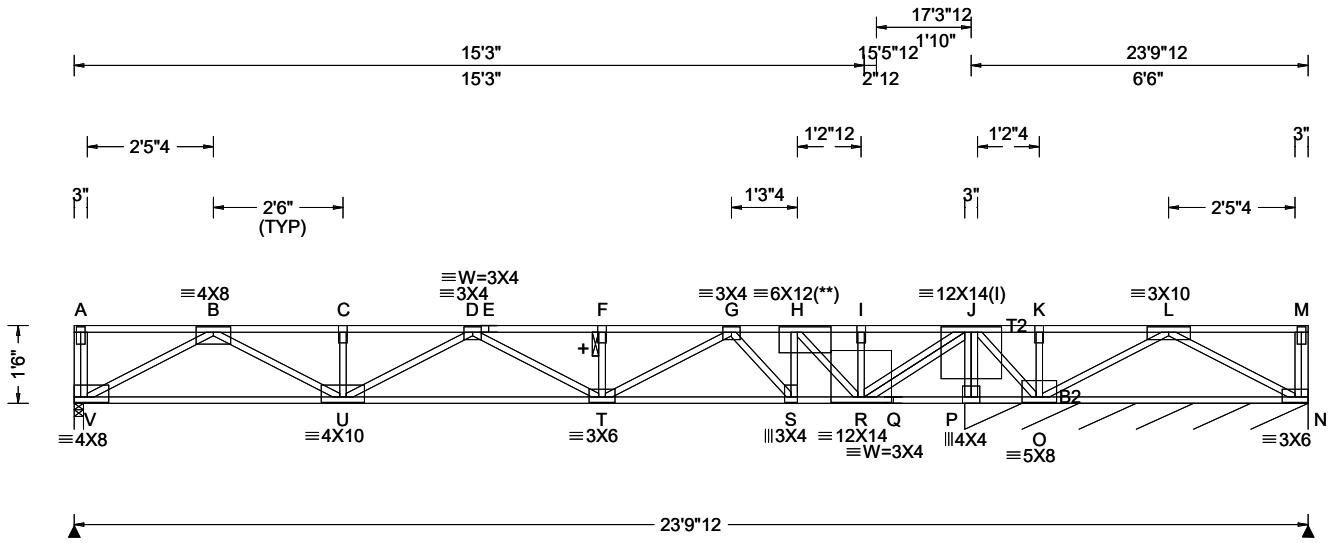
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96799 / SY42 FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F22	Cust: R 9316 JRef:1Xf193160001 T2 / DrwNo: 116.22.0934.26555 / NDW 04/26/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.179 F 999 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.335 F 613 360
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.026 B - -
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.049 B - -
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.504
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.472
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: No	Max Web CSI: 0.548
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	
	I: NA GCpi: NA	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: NA		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	441	/-	/-	/-	/-	/-
N		/-246				

V Brg Wid = 2.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2565	G - H	0	-2521
C - D	0	-2565	H - I	0	-698
D - E	0	-3256	I - J	0	-698
E - F	0	-3256	J - K	1825	0
F - G	0	-3256	K - L	1825	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1507	0	R - Q	0	-2561
U - T	3113	0	Q - P	0	-2561
T - S	2904	0	P - O	0	-2561
S - R	2477	0	O - N	0	-681

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1714	H - R	0	-2670
B - U	1208	0	R - J	3882	0
U - D	0	-625	J - P	0	-3088
T - G	402	0	J - O	1065	0
G - S	0	-598	O - L	0	-1307
S - H	486	0	L - N	779	0

Lumber

Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.81
BC: From 13 plf at 0.00 to 13 plf at 23.81
TC: 1500 lb Conc. Load at 13.90

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

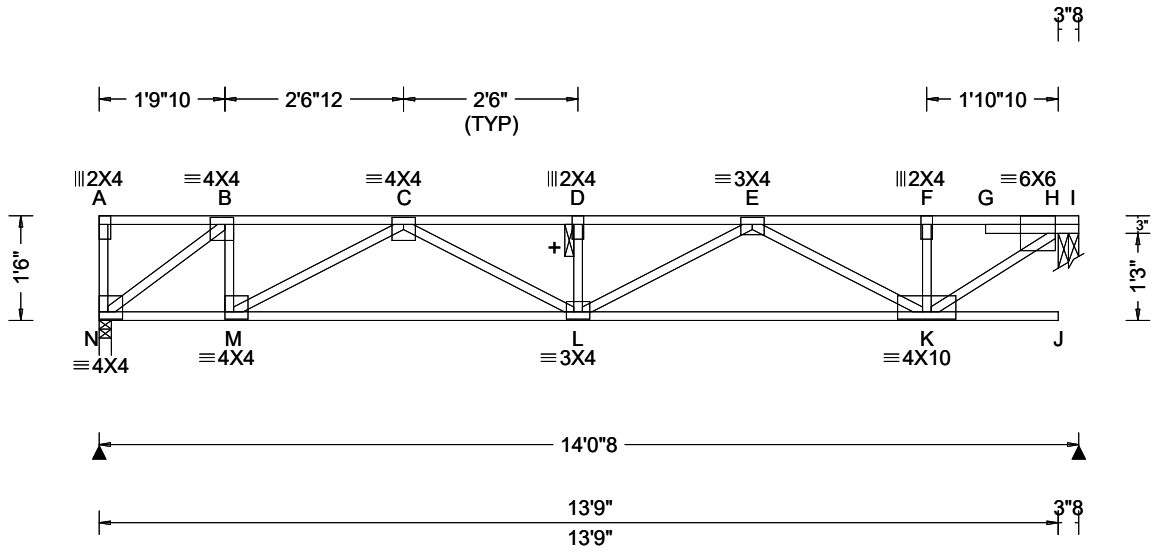
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96801 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F23	Cust: R 9316 JRef:1Xf193160001 T25 / DrwNo: 116.22.0934.26136 / NDW 04/26/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.092	D	999	480
VERT(CL): 0.172	D	970	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.029	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.613
Max BC CSI: 0.522
Max Web CSI: 0.325

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	694	/-	/-		/-	/-	/-
H	707	/-	/-		/-	/-	/-

N Brg Wid = 2.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-869	E - F	0	-931
C - D	0	-1793	F - H	0	-930
D - E	0	-1793			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	831	0	L - K	1548	0
M - L	1525	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1045	E - K	0	-704
B - M	425	0	K - H	1152	0
M - C	0	-752			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

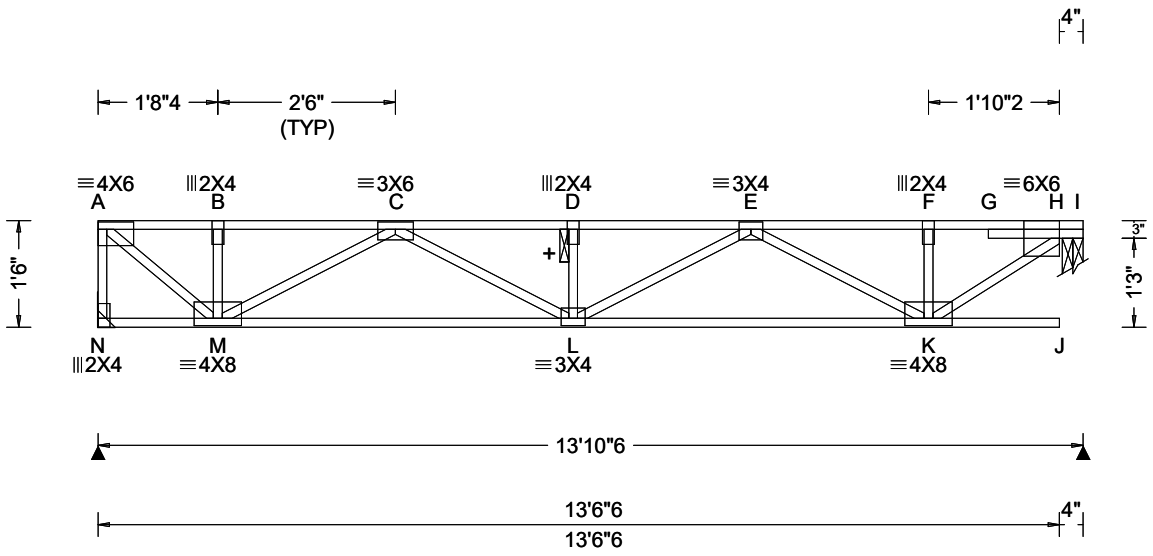
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96803 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F24	Cust: R 9316 JRef:1Xf193160001 T3 / DrwNo: 116.22.0934.25793 / NDW 04/26/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.090	D	999	480
VERT(CL): 0.167	D	982	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.604
Max BC CSI: 0.513
Max Web CSI: 0.320

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	685	/-	/-		/-	/-	/-
H	697	/-	/-		/-	/-	/-

N Brg Wid = - Min Req = -
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-776	D - E	0	-1749
B - C	0	-776	E - F	0	-917
C - D	0	-1749	F - H	0	-916

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1463	0	L - K	1518	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-684	E - K	0	-687
A - M	1001	0	K - H	1134	0
M - C	0	-784			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

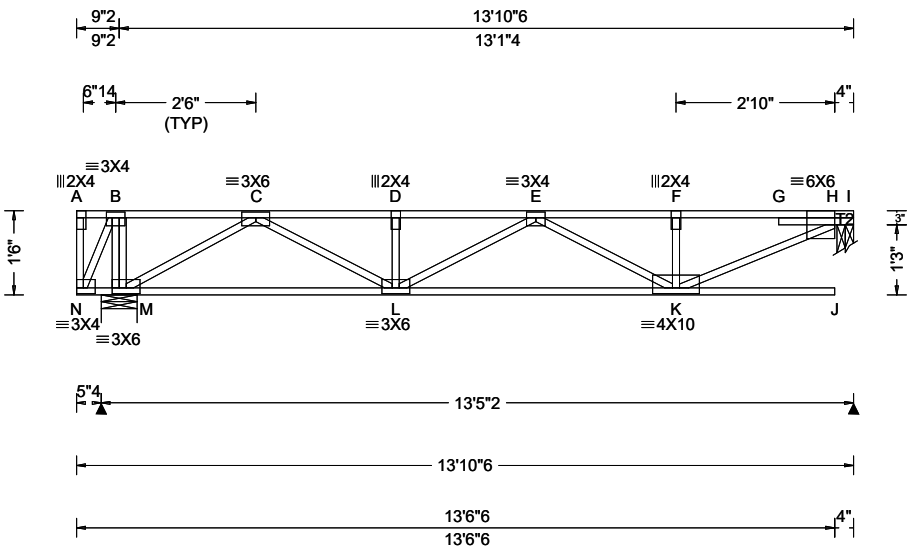
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96805 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F25	Cust: R 9316 JRef:1Xf193160001 T11 / DrwNo: 116.22.0934.26366 / NDW 04/26/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.197 J	784	480
VERT(CL):	0.316 J	488	360
HORZ(LL):	0.013 A	-	-
HORZ(TL):	0.024 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.609
Max BC CSI: 0.630
Max Web CSI: 0.367

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
M	729	/-	/-		/-	/-	/-
H	659	/-	/-		/-	/-	/-

M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	- 1447	E - F	0	- 1177
D - E	0	- 1447	F - H	0	- 1178

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	912	0	L - K	1482	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	- 1015	K - H	1301	0
C - L	614	0			

Lumber

Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

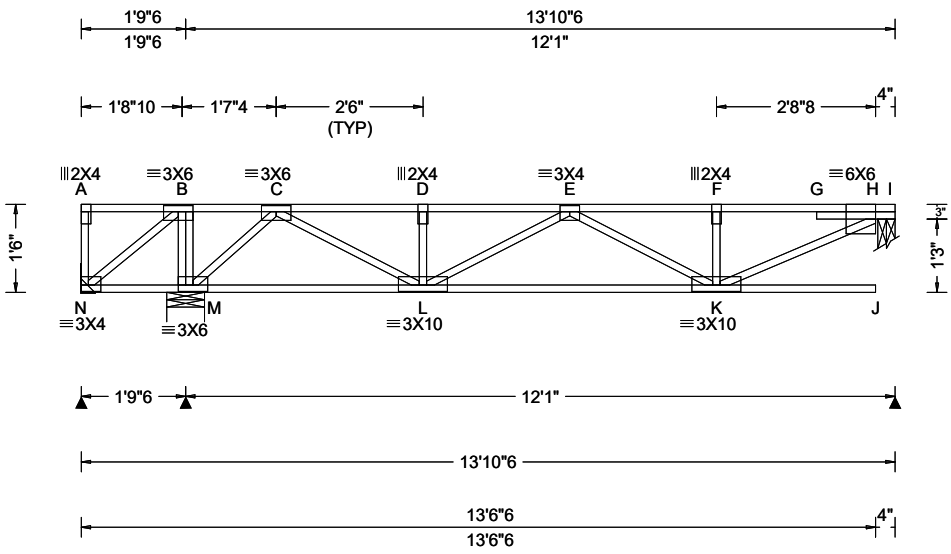
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96807 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F26	Cust: R 9316 JRef: 1Xf193160001 T5 / DrwNo: 116.22.0934.25842 / NDW 04/26/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.158 J	897	480
VERT(CL):	0.249 J	570	360
HORZ(LL):	0.007 C	-	-
HORZ(TL):	0.013 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.284

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
N	- /-358	/-	/-	/-	/-
M	1154 /-	/-	/-	/-	/-
H	547 /-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	510	0	E - F	0	-902
C - D	0	-819	F - H	0	-903
D - E	0	-819			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-465	L - K	1035	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	596	0	C - L	815	0
B - M	0	-533	K - H	1005	0
M - C	0	-843			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

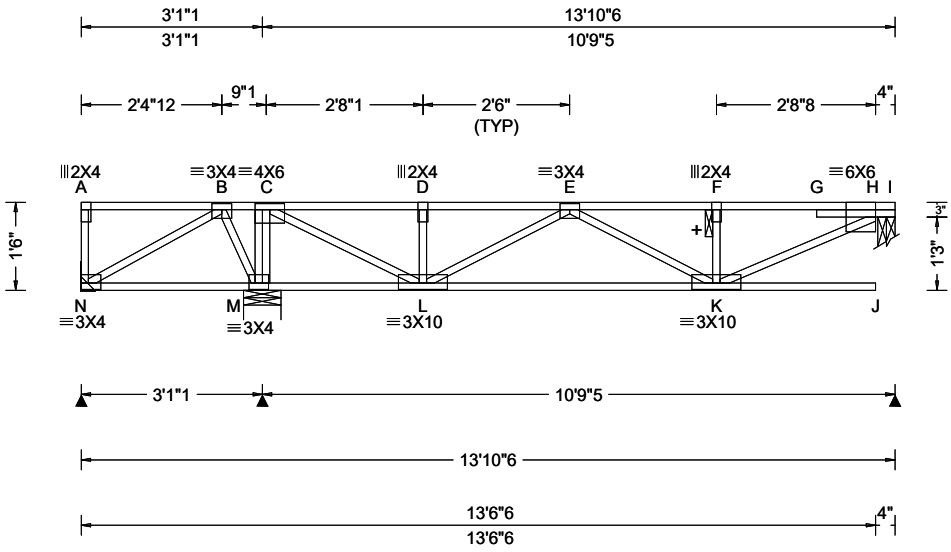
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96809 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F27	Cust: R 9316 JRef: 1Xf193160001 T9 / DrwNo: 116.22.0934.25861 / NDW 04/26/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	869	480
VERT(CL): 0.233	J	549	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.748
Max BC CSI: 0.436
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	44	/-139	/-	/-	/-	/-
M	963	/-	/-	/-	/-	/-
H	491	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	427	0	E - F	0	-782
C - D	0	-495	F - H	0	-784
D - E	0	-495			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	815	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	-633	K - H	872	0
C - L	964	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

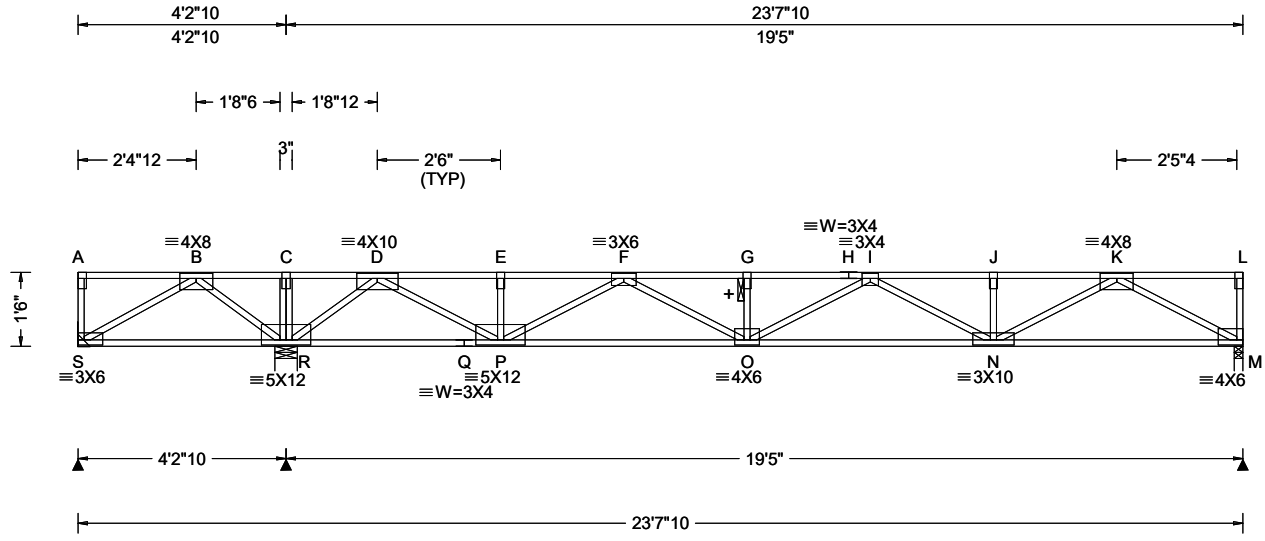
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96811 / SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F28	Cust: R 9316 JRef:1Xf193160001 T10 / DrwNo: 116.22.0934.25833 / NDW 04/26/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.196	G	999	480
VERT(CL): 0.369	G	630	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.795
Max Web CSI: 0.467

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	-	/-490	/-	/-	/-	/-
R	1906	/-	/-	/-	/-	/-
M	843	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1763	0	G - H	0	- 2527
C - D	1763	0	H - I	0	- 2527
D - E	0	- 1026	I - J	0	- 2216
E - F	0	- 1026	J - K	0	- 2216
F - G	0	- 2527			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	- 944	P - O	1976	0
R - Q	0	- 440	O - N	2573	0
Q - P	0	- 440	N - M	1350	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1088	0	F - O	633	0
B - R	0	- 1142	I - N	0	- 408
R - D	0	- 1649	N - K	988	0
D - P	1656	0	K - M	0	- 1532
P - F	0	- 1087			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -490# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

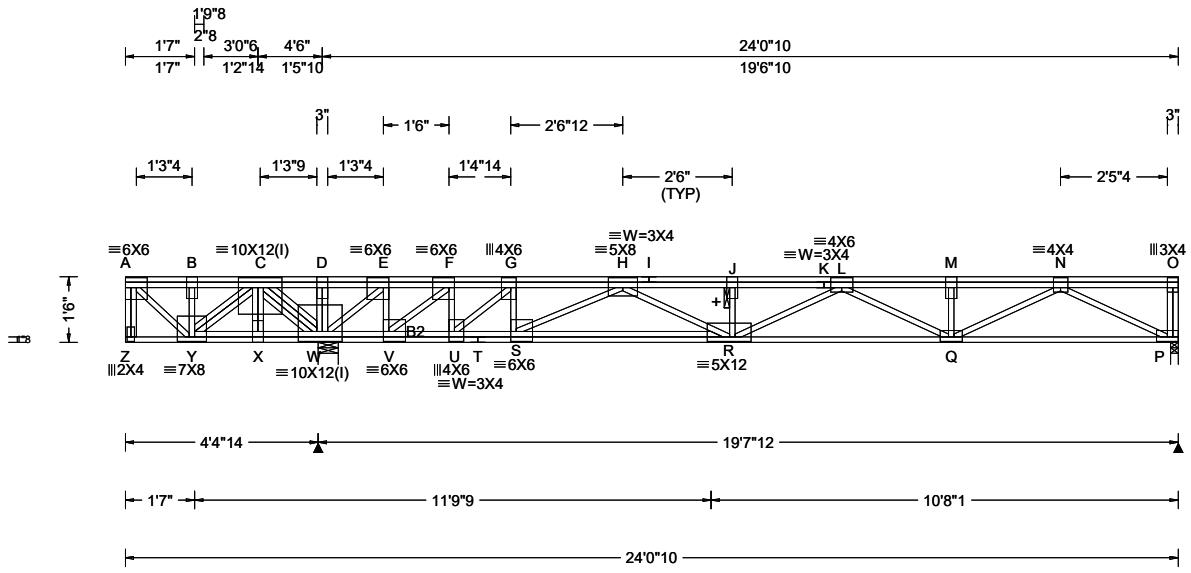
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96813 / SY42 FROM:	Ply: 2 Qty: 3	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F28G	Cust: R 9316 JRef:1Xf193160001 T12 / DrwNo: 116.22.0934.25795 / NDW 04/26/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.120	A	443	480
VERT(CL): 0.268	Z	396	360
HORZ(LL): -0.025	A	-	-
HORZ(TL): 0.057	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.433
Max BC CSI: 0.260
Max Web CSI: 0.271

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	8750	/-	/-	/-	/-	/-
P	618	/-243	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	597	0	H - I	1855	-383
B - C	597	0	I - J	1855	-383
C - D	5342	0	J - K	1853	-389
D - E	5337	0	K - L	1853	-389
E - F	4767	0	L - M	685	-689
F - G	4126	0	M - N	685	-689
G - H	3551	0			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	-1645	T - S	0	-3597
X - W	0	-1635	S - R	0	-2646
W - V	0	-4815	R - Q	647	-1215
V - U	0	-4178	Q - P	456	-296
U - T	0	-3597			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	-789	G - S	577	0
Y - C	1366	0	S - H	0	-1230
C - W	0	-5021	H - R	961	0
W - E	0	-1030	R - L	0	-716
E - V	677	0	L - Q	599	0
V - F	0	-1093	Q - N	264	-439
F - U	694	0	N - P	330	-495
U - G	0	-980			

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Revised Per BDC comment

Special Loads
------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.05
BC: From 13 plf at 0.00 to 13 plf at 24.05
TC: 1129 lb Conc. Load at 0.12
TC: 5500 lb Conc. Load at 3.03

Plating Notes
All plates are 3X6 except as noted.
(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.
Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

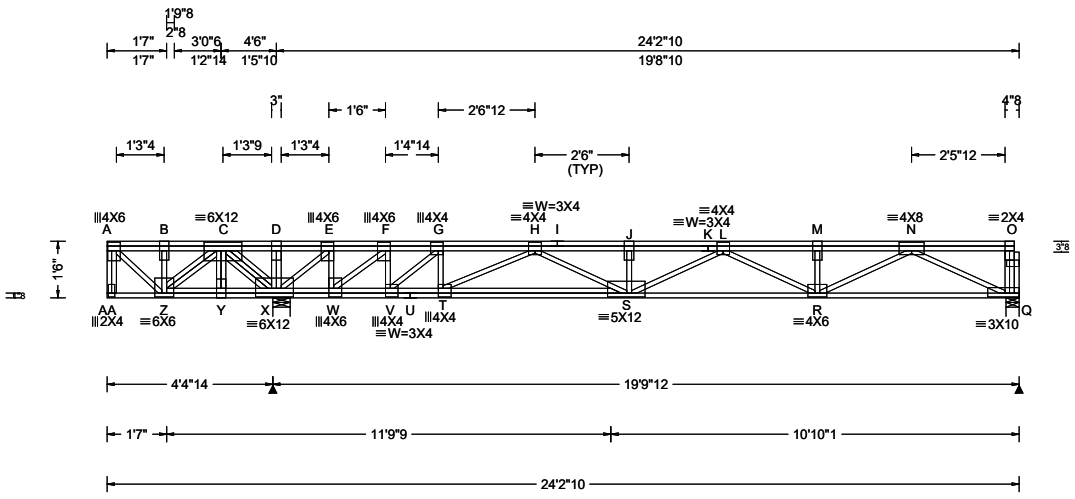
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96825 / SY42 FROM:	Ply: 2 Qty: 1	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F29G	Cust: R 9316 JRef: 1Xf193160001 T27 / DrwNo: 116.22.0934.26869 / NDW 04/26/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.094	L	999	480
VERT(CL): 0.183	J	999	360
HORZ(LL): 0.014	Q	-	-
HORZ(TL): 0.029	Q	-	-

Creep Factor: 2.0
Max TC CSI: 0.108
Max BC CSI: 0.506
Max Web CSI: 0.191

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
X	1475	/-	/-	/-	/-	/-
Q	974	/-	/-	/-	/-	/-

X Brg Wid = 5.5 Min Req = 1.5 (Truss)
Q Brg Wid = 4.1 Min Req = 1.5 (Truss)
Bearings X & Q are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	375	0	I - J	0	-1744
E - F	101	-392	J - K	0	-1750
F - G	0	-854	K - L	0	-1750
G - H	0	-1223	L - M	0	-1395
H - I	0	-1744	M - N	0	-1395

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
W - V	820	0	T - S	1596	0
V - U	1199	0	S - R	1672	0
U - T	1199	0	R - Q	841	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
X - E	0	-684	T - H	0	-452
E - W	397	0	R - N	626	0
W - F	0	-599	N - Q	0	-938
V - G	0	-501			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 3X6 except as noted.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.
See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

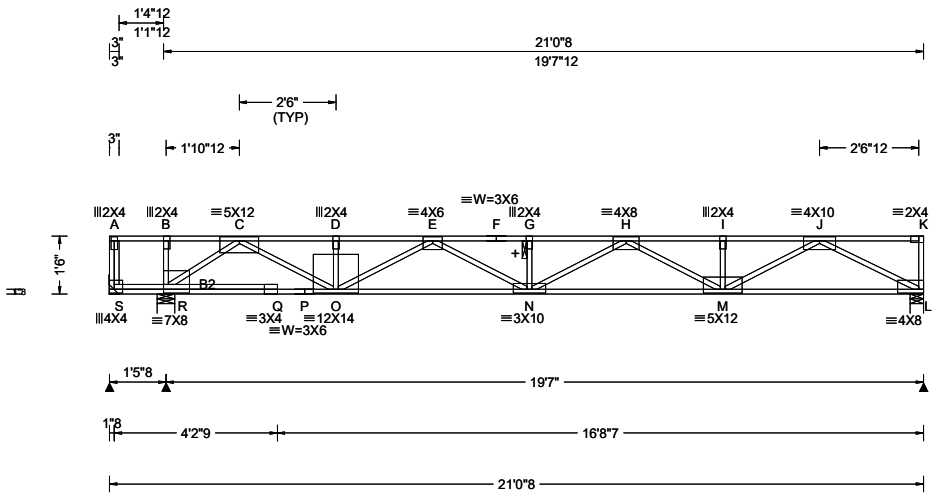
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 9785 / SY42 FROM:	Ply: 2 Qty: 1	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F30G	Cust: R 9316 JRef:1Xf193160001 T22 / DrwNo: 116.22.0934.26843 / NDW 04/26/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.316	G	741	480
VERT(CL): 0.593	G	395	360
HORZ(LL): 0.043	C	-	-
HORZ(TL): 0.080	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.658
Max BC CSI: 0.747
Max Web CSI: 0.609

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	23	/-94	/-	/-	/-	/-
R	3996	/-	/-	/-	/-	/-
L	1984	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 4.1 Min Req = 1.5 (Truss)
Bearings R & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-3821	G - H	0	-5191
D - E	0	-3821	H - I	0	-3282
E - F	0	-5191	I - J	0	-3282
F - G	0	-5191			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	1931	0	O - N	4919	0
Q - P	1930	0	N - M	4530	0
P - O	1930	0	M - L	1824	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - R	0	-461	G - N	0	-474
R - C	0	-2401	N - H	754	0
C - O	2159	0	H - M	0	-1425
D - O	0	-468	M - J	1663	0
O - E	0	-1252	J - L	0	-2049

Lumber
Top chord: 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 20.92
BC: From 13 plf at 0.00 to 13 plf at 21.04
TC: 443 lb Conc. Load at 0.94
TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27 7.60, 8.94,10.27,11.60,12.94

Deflection
Max JT VERT DEFL: LL: 0.31" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

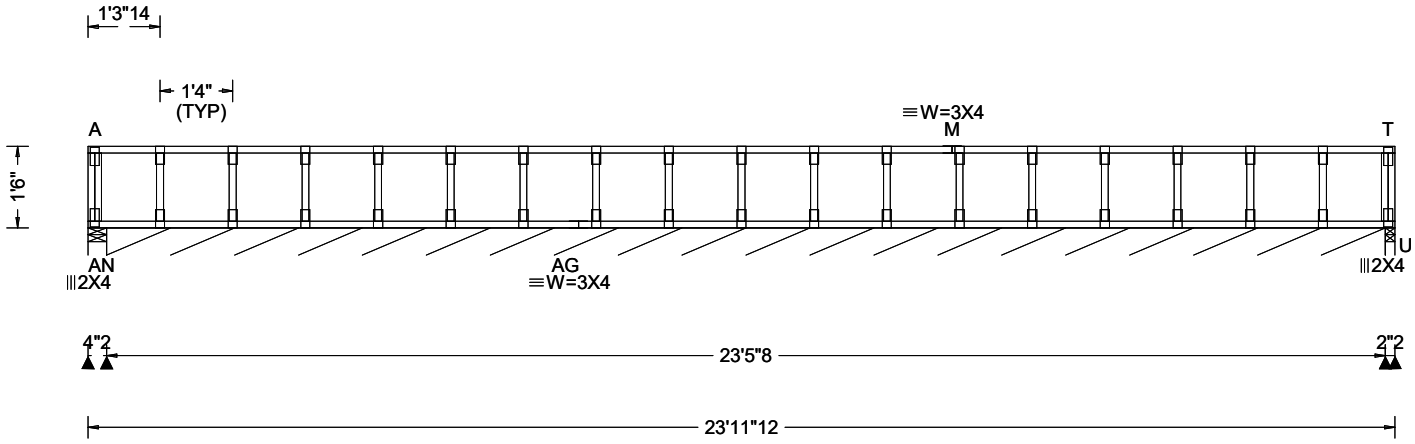
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96815 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L11	Cust: R 9316 JRef: 1Xf193160001 T29 / DrwNo: 116.22.0934.26285 / NDW 04/26/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.000 T 999 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.001 T 999 360
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): -0.003 B - -
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.005 B - -
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.060
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.013
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes	Max Web CSI: 0.018
	C&C Dist a: NA ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	
	I: NA GCpi: NA	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: NA		

▲Maximum Reactions (lbs), or *=PLF

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AN	68 /-	/-	/-	/-	/-
AN*	97 /-	/-	/-	/-	/-
U	64 /-	/-	/-	/-	/-

AN Brg Wid = 4.1 Min Req = 1.5 (Truss)
AN Brg Wid = 281 Min Req = -
U Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AN, AN, & U are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

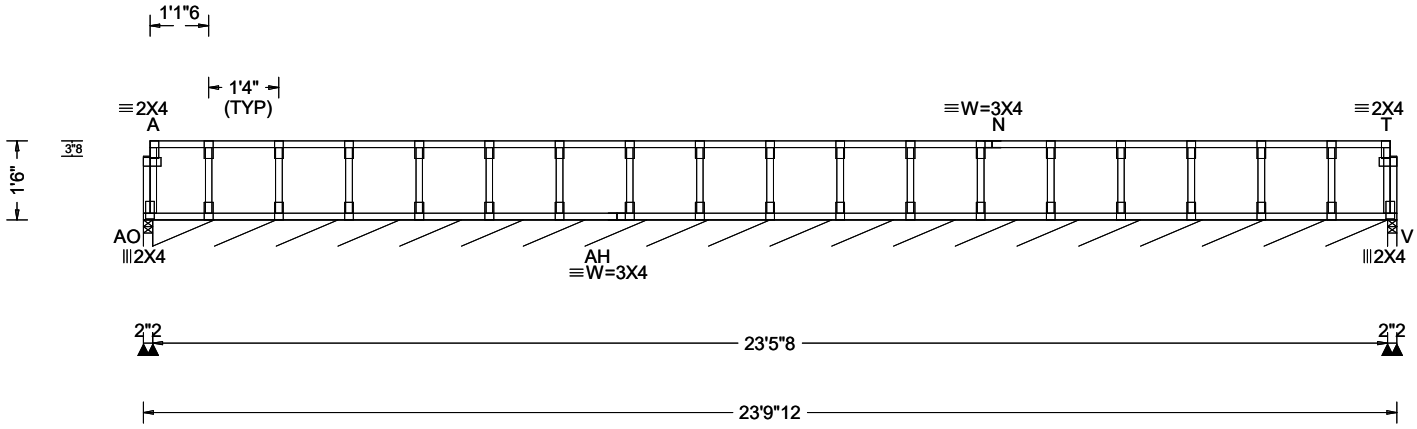
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 5

SEQN: 96817 / SY42 FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L21	Cust: R 9316 JRef:1Xf193160001 T30 / DrwNo: 116.22.0934.26342 / NDW 04/26/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	T	999	480
VERT(CL): 0.000	T	999	360
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.057
Max BC CSI: 0.009
Max Web CSI: 0.018

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AO	48 /-	/-	/-	/-	/-
AO	*97 /-	/-	/-	/-	/-
V	48 /-	/-	/-	/-	/-

AO Brg Wid = 2.1 Min Req = 1.5 (Truss)
AO Brg Wid = 281 Min Req = -
V Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AO, AO, & V are a rigid surface.
Members not listed have forces less than 375#

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing
Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 2X4 except as noted.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.

04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

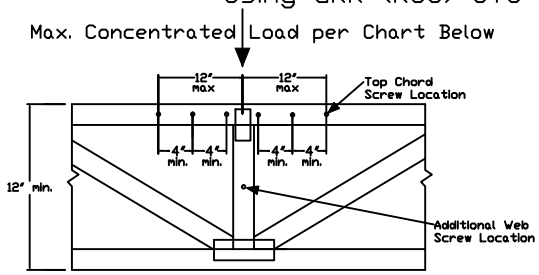
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

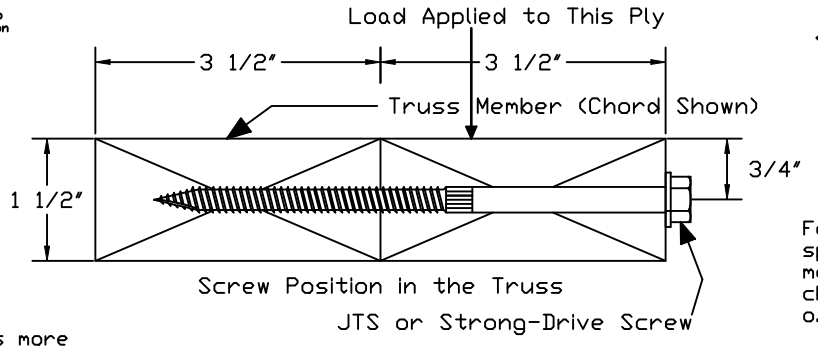
ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

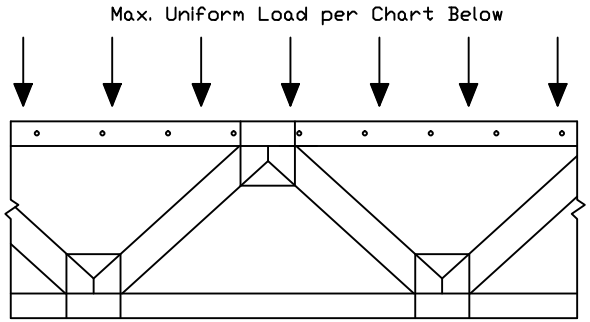
System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.



Refer to Alpine sealed drawing for individual truss design.





Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200

ALPINE® ITW COMPANY

Texas Registered Engineering Firm F-3199
1717 McKinney Ave, Suite 1700, Dallas, Texas 75202
Copyright © 2025

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL	PSF	REF SY42 Connection
TC DL	PSF	DATE 01/19/2018
BC DL	PSF	DRWG CNSY42PL0118
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.	1.00	
SPACING		

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

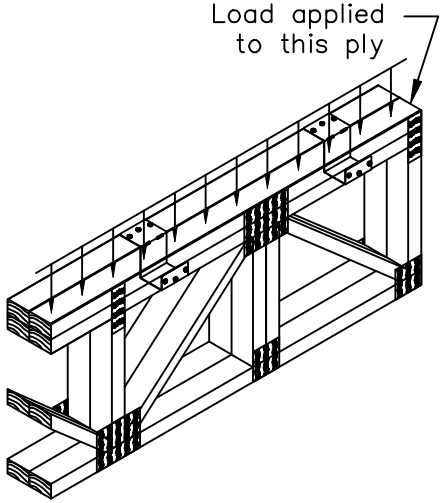
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL

FOR DOWNWARD LOADS ONLY

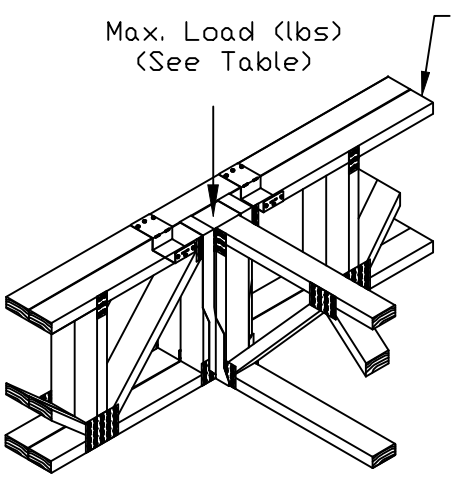
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application



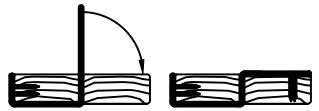
Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

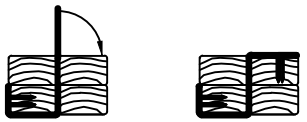
Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.

2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

ALPINE® ITW COMPANY

Hades Floor
025

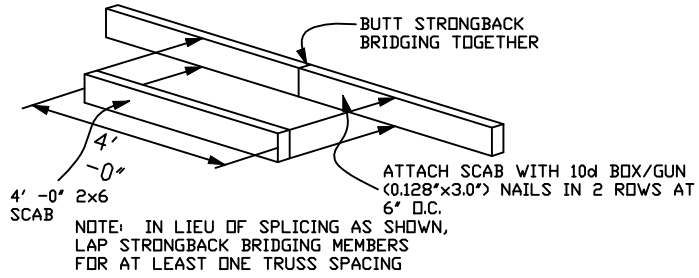
REF	SY42 Connection
DATE	10/01/14
DRWG	LSCSYX2A1014

DUR. FAC. ALL

MiTek Recommended

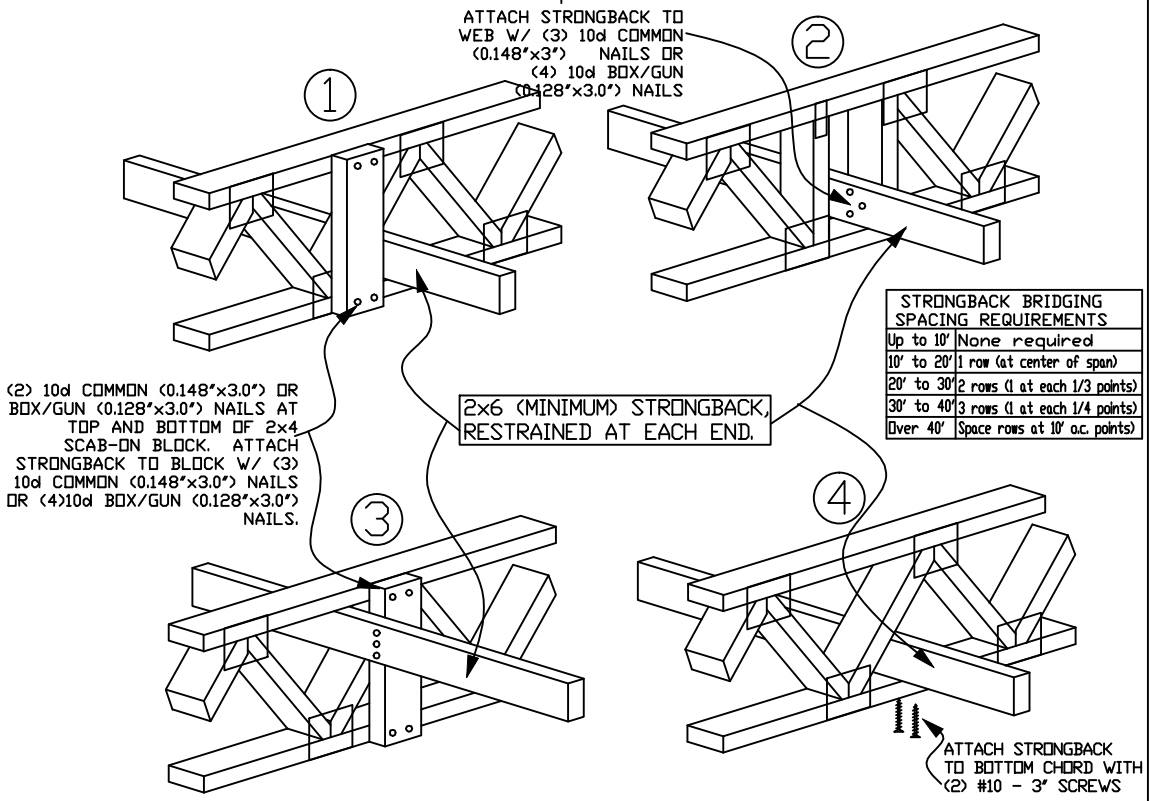
04/26/2022

STRONGBACK BRIDGING RECOMMENDATIONS



STRONGBACK BRIDGING SPLICE DETAIL

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING SPACING REQUIREMENTS	
Up to 10'	None required
10' to 20'	1 row (at center of span)
20' to 30'	2 rows (1 at each 1/3 points)
30' to 40'	3 rows (1 at each 1/4 points)
Over 40'	Space rows at 10' o.c. points)

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

- All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

ALPINE® ITW COMPANY

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL	PSF	REF STRONGBACK
TC DL	PSF	DATE 10/01/14
BC DL	PSF	DRWG STRBRIBR1014
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.	1.00	
SPACING		

Building 5

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

04/27/2022

Site Information:	**Page 1:**
Customer: Mill Creek Truss	*Job Number:* JB-220686
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1Xf293160008
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 109 *Building Type:* Closed	*Design Loading (psf):* 60.00

This package contains general notes pages, 88 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	117.22.1504.07917	J02	2	117.22.1504.16910	J02G
3	117.22.1504.22433	J03	4	117.22.1504.43887	T01
5	117.22.1504.49280	T02	6	117.22.1505.02613	T03
7	117.22.1505.11927	T04	8	117.22.1505.18727	T05
9	117.22.1505.36320	T06	10	117.22.1505.42457	T07
11	117.22.1505.49770	T08	12	117.22.1506.39090	T10
13	117.22.1506.44380	T12	14	117.22.1506.54163	T13
15	117.22.1506.59320	T14	16	117.22.1510.13493	T15
17	117.22.1510.33810	T17	18	117.22.1510.39090	T18
19	117.22.1510.43380	T19	20	117.22.1510.46440	T20
21	117.22.1510.51460	T21	22	117.22.1510.55853	T22
23	117.22.1511.00170	T23	24	117.22.1511.04810	T24
25	117.22.1511.13503	T25	26	117.22.1512.03240	T26
27	117.22.1512.09397	T27	28	117.22.1512.13720	T28
29	117.22.1512.18627	T29	30	117.22.1512.23313	T30
31	117.22.1512.29580	T31	32	117.22.1512.50097	T33
33	117.22.1512.56100	T34	34	117.22.1513.00910	T35
35	117.22.1513.04643	T36	36	117.22.1513.09773	T37
37	117.22.1513.15000	T38	38	117.22.1513.20640	T39
39	117.22.1513.28917	T40	40	117.22.1513.35987	T41
41	117.22.1513.49013	T42	42	117.22.1513.57637	T43
43	117.22.1514.03177	T44	44	117.22.1514.10500	T45
45	117.22.1514.14993	T46	46	117.22.1514.18603	T47
47	117.22.1514.23170	T48	48	117.22.1514.30670	T49
49	117.22.1514.34290	T50	50	117.22.1514.37540	T51

Building 5

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

04/27/2022

Site Information:	Page 2:
Customer: Mill Creek Truss	*Job Number:* JB-220686
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	117.22.1514.44333	T52
53	117.22.1515.05987	TGE02
55	117.22.1515.13693	TGE04
57	117.22.1515.19443	TGE06
59	117.22.1515.25170	TGE08
61	117.22.1515.31420	TGE10
63	117.22.1515.37227	TGE12
65	117.22.1515.43257	TGE14
67	117.22.1515.50400	TGE16
69	117.22.1515.58287	TGE18
71	117.22.1516.06280	TGE20
73	117.22.1516.14890	TGE22
75	117.22.1510.23493	T16
77	117.22.1512.41580	T32
79	117.22.1506.14687	T09A
81	117.22.1514.26283	T48A
83	117.22.1516.36093	TGE27
85	117.22.1506.05530	T09
87	117.22.1504.12163	J02A
89	A11530ENC160118	
91	GBLLETIN0118	
93	DEFLCAMB1014	

Item	Drawing Number	Truss
52	117.22.1514.48587	TGE01
54	117.22.1515.10613	TGE03
56	117.22.1515.16750	TGE05
58	117.22.1515.22490	TGE07
60	117.22.1515.28193	TGE09
62	117.22.1515.34563	TGE11
64	117.22.1515.40100	TGE13
66	117.22.1515.46513	TGE15
68	117.22.1515.54067	TGE17
70	117.22.1516.03073	TGE19
72	117.22.1516.11080	TGE21
74	117.22.1516.20030	TGE23
76	117.22.1512.35983	T32
78	117.22.1510.29380	T16
80	117.22.1506.22637	T09B
82	117.22.1516.29533	TGE26
84	117.22.1505.56650	T08
86	117.22.1516.24317	TGE24
88	117.22.1516.27373	TGE25
90	GABRST160118	
92	BRCLBSUB0119	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

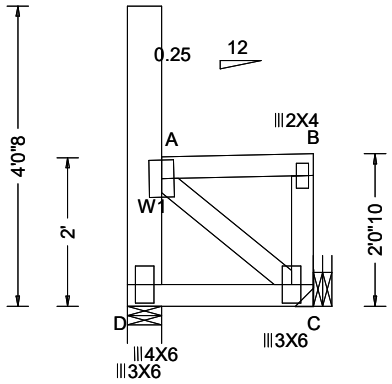
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 5

SEQN: 34013 MONO FROM:	Ply: 1 Qty: 30	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02	Cust: R 9316 JRef: 1Xf293160008 T193 DrwNo: 117.22.1504.07917 / NDW 04/27/2022



Revised Typical per BDC Comments

Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 B	999	360
VERT(CL):	0.000 B	999	240
HORZ(LL):	0.001 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.103
Max BC CSI: 0.066
Max Web CSI: 0.131

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	134	/-	/-	/101	/79	/90
C	160	/-	/-	/144	/63	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
A - C	238	-387

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

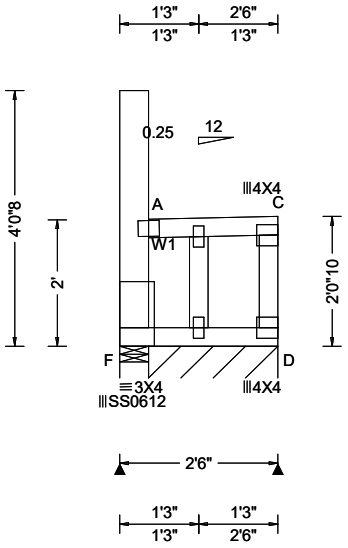
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34015 GABL FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02G	Cust: R 9316 JRef: 1Xf293160008 T109 DrwNo: 117.22.1504.16910 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
18SS, WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.005 A	999	360
VERT(CL):	0.007 A	999	240
HORZ(LL):	0.091 A	-	-
HORZ(TL):	0.104 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.128
Max BC CSI: 0.370
Max Web CSI: 0.163

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	42	/-	/-	/118	/145	/98
D*	124	/-	/-	/120	/57	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 24.5 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 2X4 except as noted.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

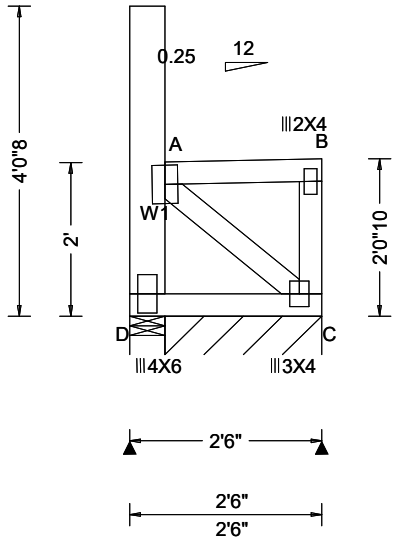
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34016 MONO FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J03	Cust: R 9316 JRef: 1Xf293160008 T133 DrwNo: 117.22.1504.22433 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.103
Max BC CSI: 0.066
Max Web CSI: 0.105

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	134	/-	/-	/110	/85	/98
C*	79	/-	/-	/72	/33	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = 24.5 Min Req = -
Bearings D & D are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

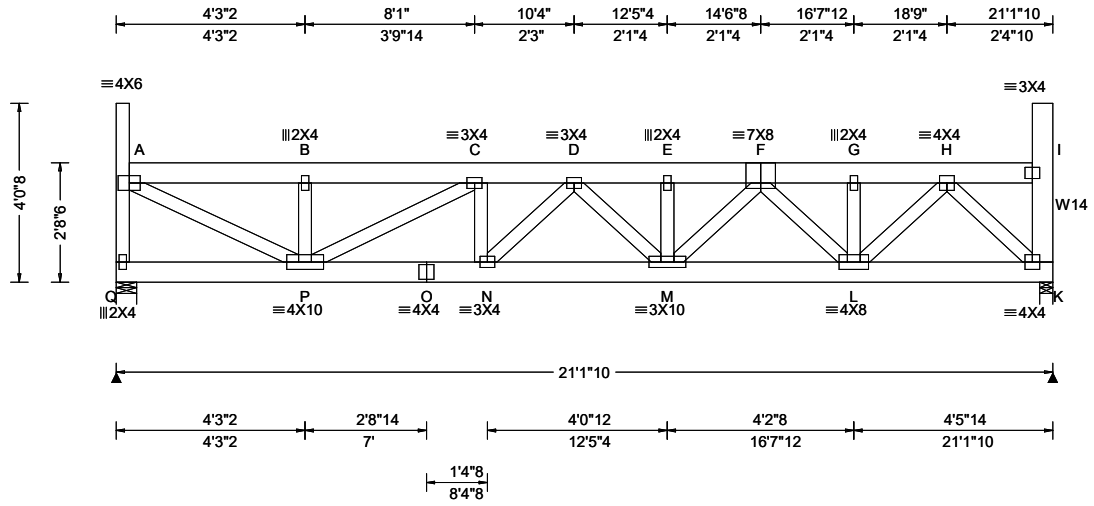
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34100 FLAT FROM:	Ply: 3 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T01	Cust: R 9316 JRef: 1Xf293160008 T10 DrwNo: 117.22.1504.43887 / NDW 04/27/2022

3 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.060	D	999	360
VERT(CL): 0.102	D	999	240
HORZ(LL): 0.014	K	-	-
HORZ(TL): 0.024	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.049
Max BC CSI: 0.262
Max Web CSI: 0.269

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	1828	/-	/-	/-	/117	/-
K	2145	/-	/-	/-	/150	/-

Wind reactions based on MWFRS
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
K Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings Q & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	68	- 1022	E - F	154	- 2045
B - C	67	- 1018	F - G	93	- 1282
C - D	115	- 1654	G - H	93	- 1282
D - E	154	- 2045			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	1617	- 112	M - L	1696	- 125
O - N	1617	- 112	L - K	710	- 51
N - M	1870	- 135			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - A	37	- 575	F - L	47	- 605
A - P	1096	- 73	L - H	835	- 62
P - C	52	- 695	H - K	69	- 963
M - F	509	- 42			

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 20.68
BC: From 50 plf at 0.00 to 50 plf at 21.14
BC: 1489 lb Conc. Load at 12.90

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.39	1.34	13.80	3.32
20.68	0.00	20.39	1.34	13.80	3.32

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

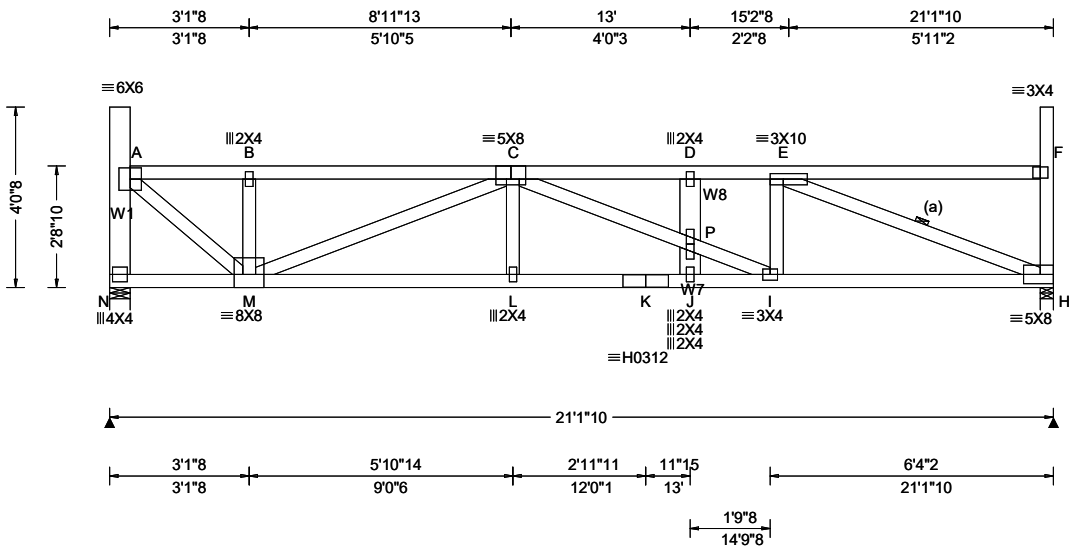
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34017 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T02	Cust: R 9316 JRef: 1Xf293160008 T1 DrwNo: 117.22.1504.49280 / NDW 04/27/2022	



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.155 D 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.266 D 953 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.046 H - -
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.079 H - -
NCBCLL: 0.00	Mean Height: 21.72 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.427
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.928
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.991
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE, HS	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1234	/-	/-	/534	/72	/120
H	1246	/-	/-	/539	/74	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.9 (Truss)
H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	136	- 1501	C - D	137	- 2445
B - C	136	- 1498	D - E	137	- 2445

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2806	- 236	J - I	2806	- 236
L - K	2806	- 236	I - H	2383	- 154
K - J	2806	- 236			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	76	- 1190	P - I	94	- 403
A - M	1788	- 116	I - E	524	- 3
M - C	127	- 1414	E - H	166	- 2524
C - P	93	- 386			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.32	13.12	3.16
20.84	0.00	20.39	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

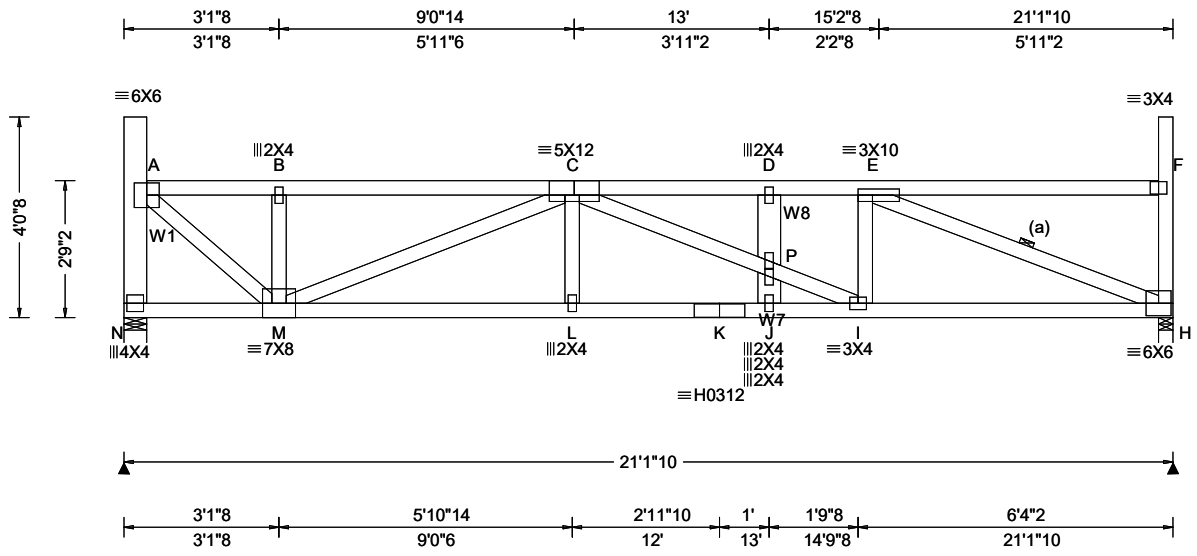
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34018 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T03	Cust: R 9316 JRef: 1Xf293160008 T2 DrwNo: 117.22.1505.02613 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.151	D	999	360
VERT(CL): 0.249	D	999	240
HORZ(LL): 0.045	H	-	-
HORZ(TL): 0.078	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.427
Max BC CSI: 0.921
Max Web CSI: 0.985

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1236	/-	/-	/534	/73	/119
H	1248	/-	/-	/539	/75	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.9 (Truss)
H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	134	-1478	C - D	136	-2408
B - C	134	-1475	D - E	136	-2408

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2766	-235	J - I	2766	-235
L - K	2766	-235	I - H	2346	-153
K - J	2766	-235			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	77	-1192	P - I	93	-713
A - M	1771	-115	I - E	525	-3
M - C	126	-1399	E - H	164	-2492
C - P	92	-694			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.28	11.74	2.83
20.84	0.00	20.39	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

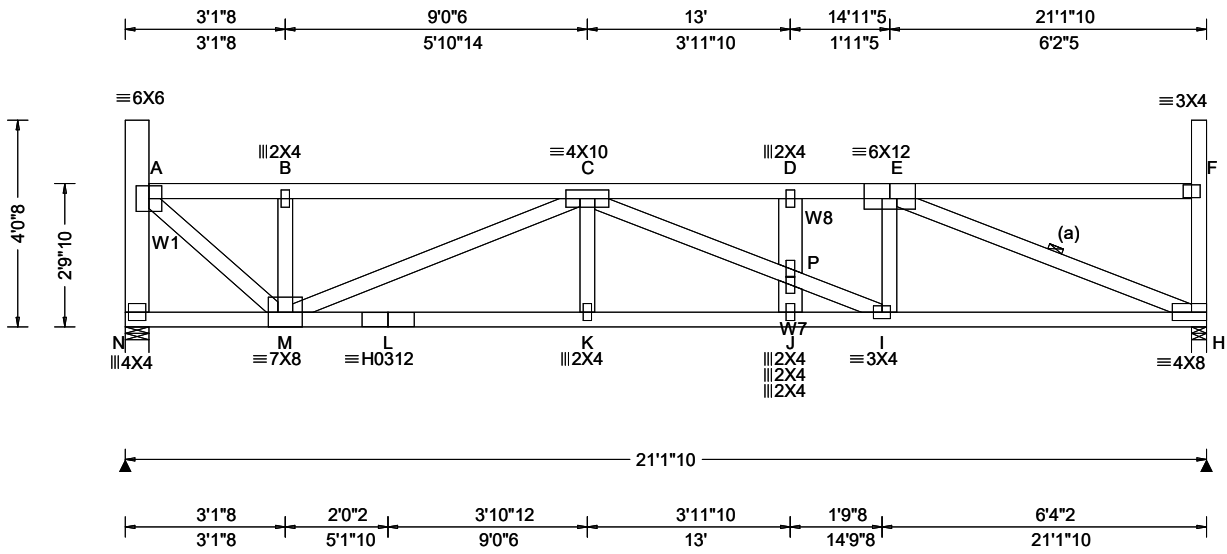
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34019 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T04	Cust: R 9316 JRef: 1Xf293160008 T3 DrwNo: 117.22.1505.11927 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	D	999	360
VERT(CL): 0.242	D	999	240
HORZ(LL): 0.045	H	-	-
HORZ(TL): 0.076	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.438
Max BC CSI: 0.913
Max Web CSI: 0.979

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1236	/-	/-	/534	/73	/118
H	1248	/-	/-	/538	/75	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.9 (Truss)
H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	132	- 1454	C - D	159	- 2365
B - C	131	- 1450	D - E	159	- 2365

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2724	- 232	J - I	2724	- 232
L - K	2724	- 232	I - H	2304	- 151
K - J	2724	- 232			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	77	- 1193	P - I	92	- 655
A - M	1753	- 114	I - E	530	- 3
M - C	124	- 1383	E - H	161	- 2453
C - P	91	- 627			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.24	10.35	2.50
20.84	0.00	20.39	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

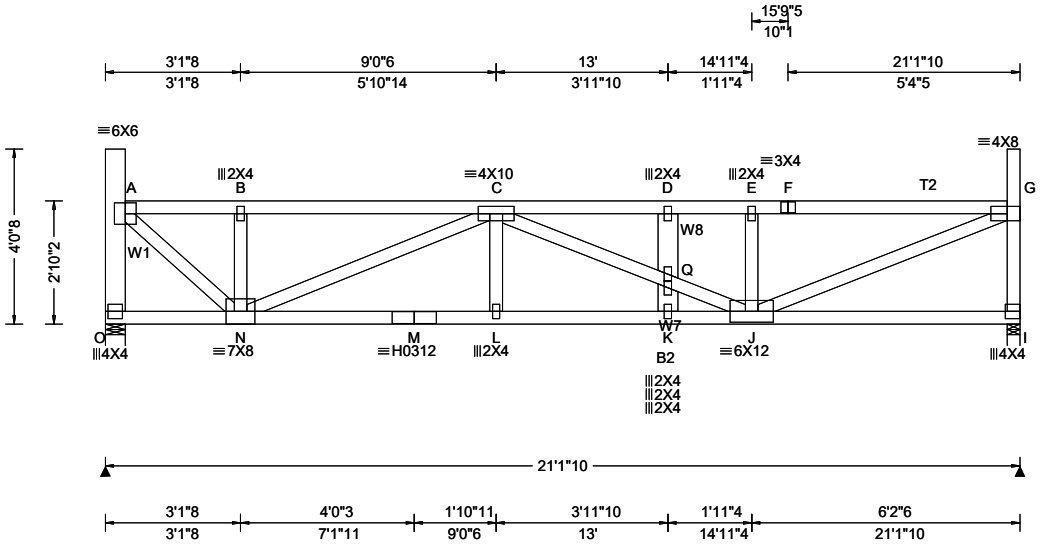
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34090 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T05	Cust: R 9316 JRef: 1Xf293160008 T11 DrwNo: 117.22.1505.18727 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.133	D	999	360
VERT(CL): 0.228	D	999	240
HORZ(LL): 0.032	A	-	-
HORZ(TL): 0.054	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.501
Max BC CSI: 0.806
Max Web CSI: 0.977

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
O	1236	/-	/-	/533	/73	/117
I	1248	/-	/-	/538	/75	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 1.9 (Truss)
I Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	130	- 1427	D - E	158	- 2312
B - C	129	- 1424	E - F	157	- 2308
C - D	158	- 2312	F - G	159	- 2317

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	2685	- 228	L - K	2685	- 228
M - L	2685	- 228	K - J	2685	- 228

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	78	- 1191	Q - J	88	- 416
A - N	1732	- 113	J - G	2405	- 159
N - C	120	- 1374	G - I	91	- 1115
C - Q	87	- 402			

Lumber

Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.20	8.97	2.16
20.84	0.00	20.39	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

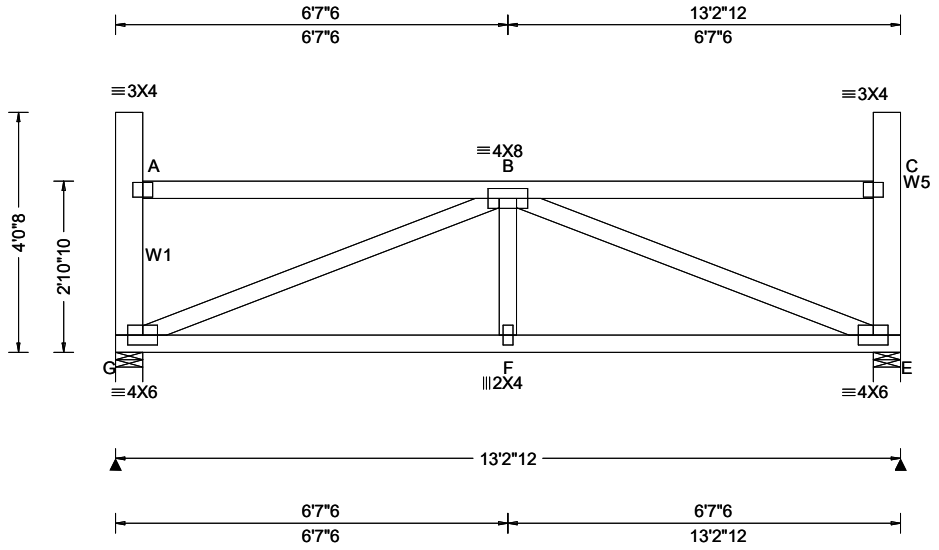
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34020 SPEC FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T06	Cust: R 9316 JRef: 1Xf293160008 T5 DrwNo: 117.22.1505.36320 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.89 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.043	F	999	360
VERT(CL): 0.074	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.026	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.550
Max BC CSI: 0.642
Max Web CSI: 0.986

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	762	/-	/-	/341	/56	/115
E	762	/-	/-	/341	/56	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1210	- 165	F - E	1210	- 165

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	178	- 1233	B - E	176	- 1233

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.59	1.83
12.77	0.00	20.00	1.16	7.59	1.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

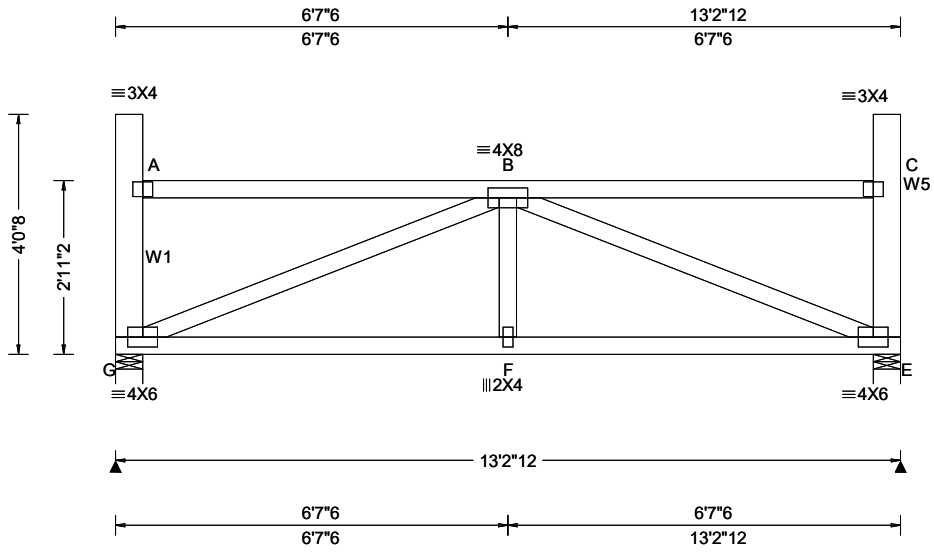
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34021 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T07	Cust: R 9316 JRef: 1Xf293160008 T6 DrwNo: 117.22.1505.42457 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.93 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.042 F	999	360
VERT(CL):	0.072 F	999	240
HORZ(LL):	0.015 E	-	-
HORZ(TL):	0.026 E	-	-

Creep Factor: 2.0
Max TC CSI: 0.551
Max BC CSI: 0.639
Max Web CSI: 0.977

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	762	/-	/-	/341	/56	/114
E	762	/-	/-	/341	/56	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1191	- 163	F - E	1191	- 163

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	174	- 1217	B - E	172	- 1217

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.11	6.20	1.50
12.77	0.00	20.00	1.11	6.20	1.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

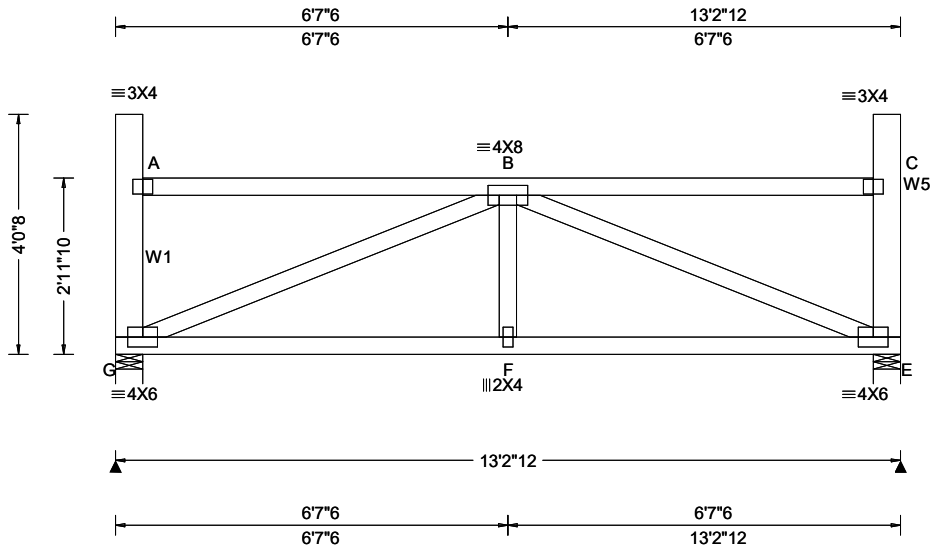
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34022 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T08	Cust: R 9316 JRef: 1Xf293160008 T7 DrwNo: 117.22.1505.49770 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.97 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.041 F	999	360
VERT(CL):	0.070 F	999	240
HORZ(LL):	0.015 E	-	-
HORZ(TL):	0.025 E	-	-

Creep Factor: 2.0
Max TC CSI: 0.551
Max BC CSI: 0.636
Max Web CSI: 0.969

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	762	/-	/-	/341	/56	/113
E	762	/-	/-	/341	/56	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1173	- 161	F - E	1173	- 161

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	170	- 1201	B - E	168	- 1201

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

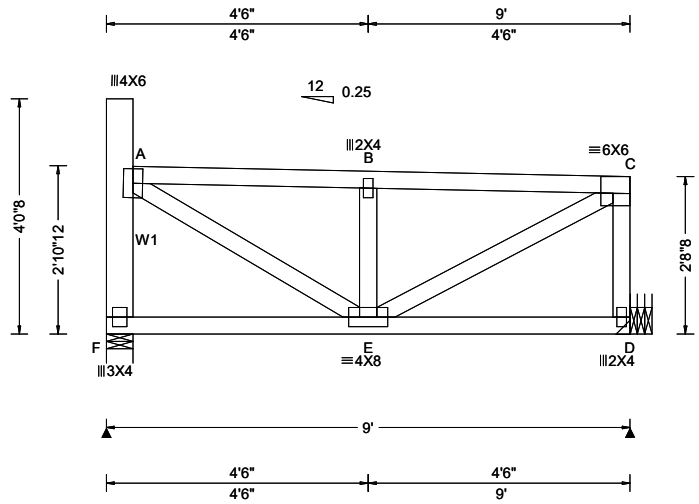
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34099 MONO FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T10	Cust: R 9316 JRef: 1Xf293160008 T9 DrwNo: 117.22.1506.39090 / NDW 04/27/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.015	B	999	360
VERT(CL): 0.026	B	999	240
HORZ(LL): 0.004	A	-	-
HORZ(TL): 0.006	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.117
Max BC CSI: 0.676
Max Web CSI: 0.213

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	1266	/-	/-	/-	/176	/-
D	1489	/-	/-	/-	/148	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = - Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	95	-793	B - C	95	-794

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
F - A	50	-453	E - C	869	-106
A - E	832	-95	C - D	54	-471

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 4.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 35 plf at 0.46 to 35 plf at 9.00
BC: From 50 plf at 0.00 to 50 plf at 2.33
BC: From 25 plf at 2.33 to 25 plf at 9.00
BC: 713 lb Conc. Load at 2.33
BC: 487 lb Conc. Load at 4.33, 6.33, 8.33

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.84

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

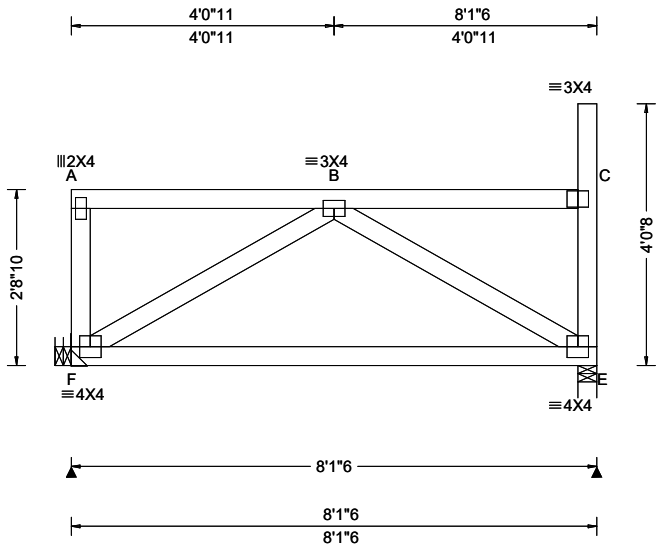
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34024 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T12	Cust: R 9316 JRef: 1Xf293160008 T210 DrwNo: 117.22.1506.44380 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.004	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.216
Max BC CSI: 0.818
Max Web CSI: 0.203

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	487	/-	/-	/229	/43	/92
E	467	/-	/-	/214	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

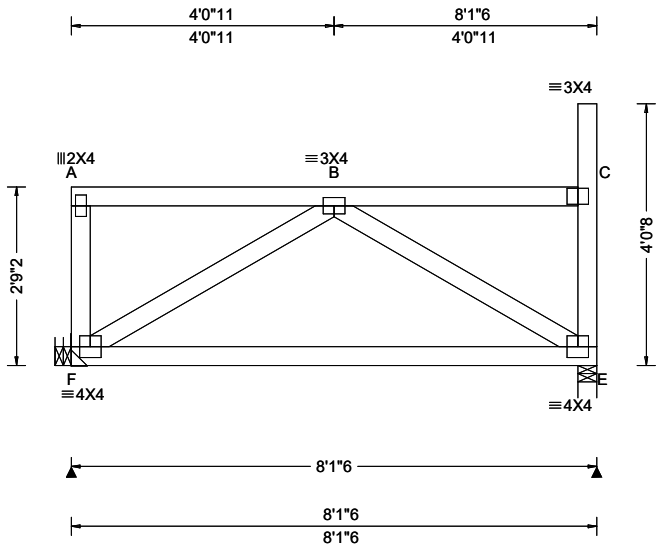
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34025 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T13	Cust: R 9316 JRef: 1Xf293160008 T126 DrwNo: 117.22.1506.54163 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.004	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.216
Max BC CSI: 0.817
Max Web CSI: 0.203

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	487	/-	/-	/229	/44	/91
E	467	/-	/-	/214	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

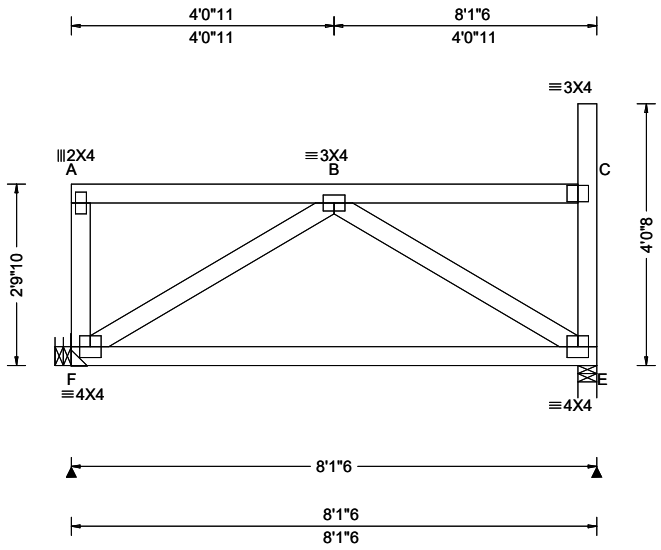
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34026 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T14	Cust: R 9316 JRef: 1Xf293160008 T130 DrwNo: 117.22.1506.59320 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.004	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.217
Max BC CSI: 0.815
Max Web CSI: 0.203

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	487	/-	/-	/229	/44	/91
E	467	/-	/-	/214	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

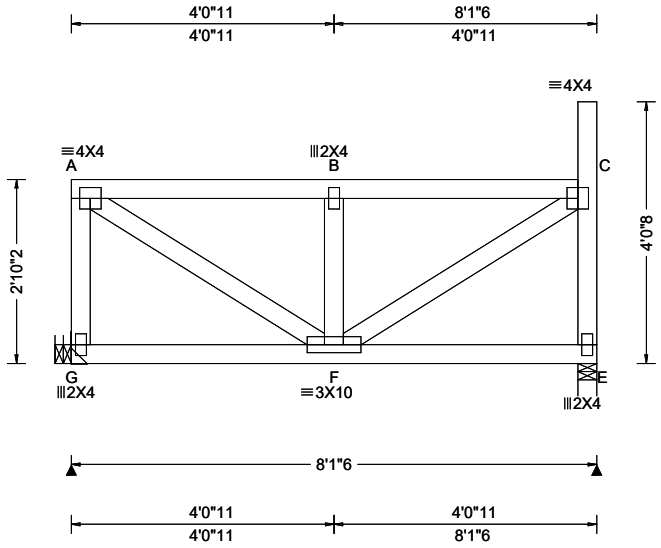
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34094 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T15	Cust: R 9316 JRef: 1Xf293160008 T124 DrwNo: 117.22.1510.13493 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.012	B	999	360
VERT(CL): 0.020	B	999	240
HORZ(LL): -0.002	C	-	-
HORZ(TL): 0.004	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.240
Max BC CSI: 0.306
Max Web CSI: 0.178

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	713	/-	/-	/-	/165	/-
E	569	/-	/-	/-	/108	/-

Wind reactions based on MWFRS
G Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	132	-625	B - C	132	-629

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	87	-502	F - C	698	-148
A - F	725	-153	C - E	87	-484

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 7.82
BC: From 25 plf at 0.00 to 25 plf at 8.11
BC: 133 lb Conc. Load at 0.27, 2.05, 4.05, 6.05

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

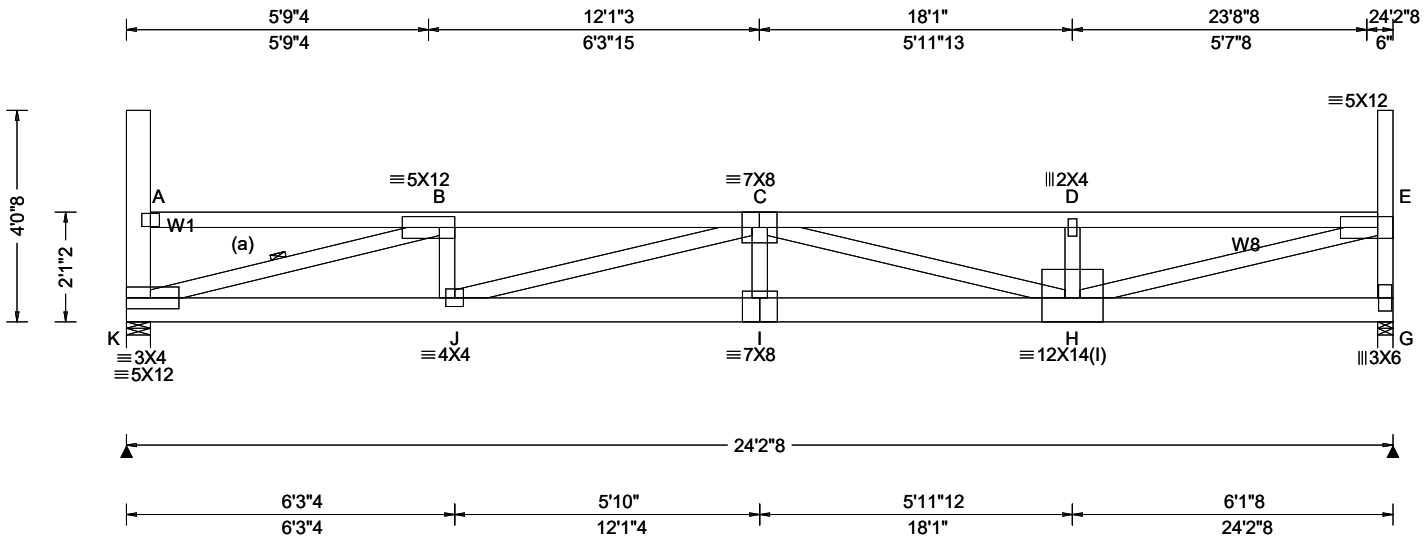
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34126 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T17	Cust: R 9316 JRef: 1Xf293160008 T127 DrwNo: 117.22.1510.33810 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.397 I	731	360
VERT(CL):	0.665 I	436	240
HORZ(LL):	0.059 A	-	-
HORZ(TL):	0.099 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.943
Max BC CSI: 0.676
Max Web CSI: 0.886

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1467	/-	/-	/610	/77	/126
G	1479	/-	/-	/616	/79	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.3 (Truss)
G Brg Wid = 3.5 Min Req = 2.3 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	238	-4123	D - E	233	-4101
C - D	233	-4096			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4013	-364	I - H	5375	-305
J - I	5375	-305			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	240	-4084	D - H	75	-382
B - J	658	0	H - E	4130	-251
J - C	147	-1305	E - G	91	-1319
C - H	139	-1332			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;
W8 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.95	33.87	4.20
23.92	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.40" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

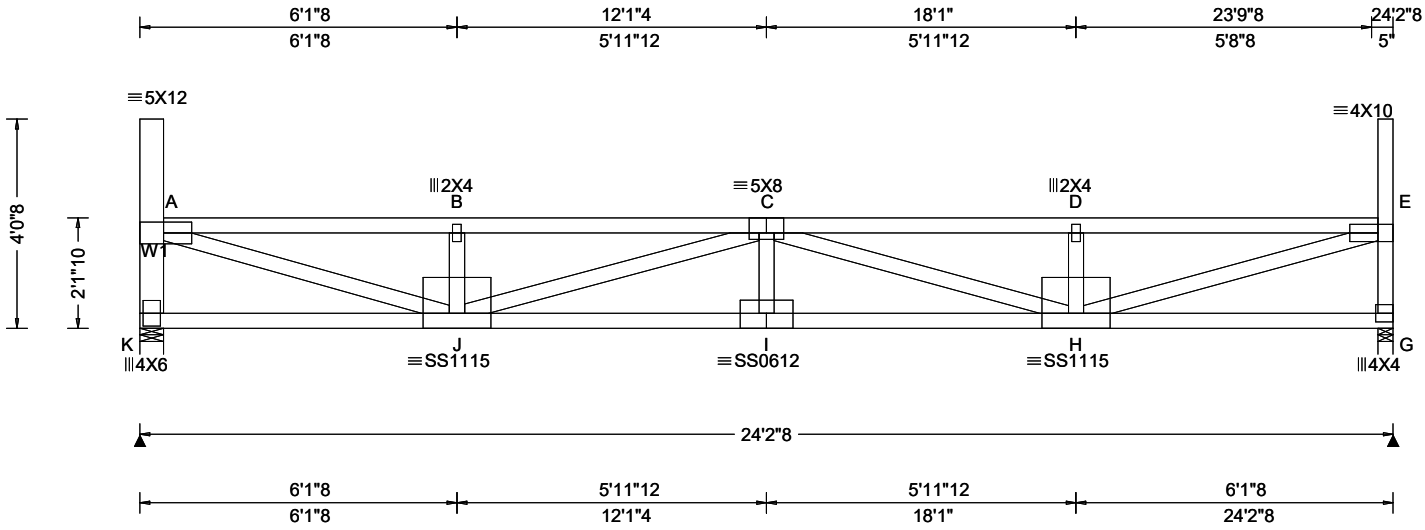
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34028 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T18	Cust: R 9316 JRef: 1Xf293160008 T125 DrwNo: 117.22.1510.39090 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.390 I	745	360
VERT(CL):	0.668 I	434	240
HORZ(LL):	0.059 A	-	-
HORZ(TL):	0.101 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.873
Max BC CSI: 0.653
Max Web CSI: 0.937

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1421	/-	/-	/610	/78	/127
G	1432	/-	/-	/616	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	233	- 3773	C - D	224	- 3779
B - C	232	- 3768	D - E	225	- 3784

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	4893	- 299	I - H	4893	- 299

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	91	- 1275	C - H	135	- 1166
A - J	3744	- 240	H - E	3820	- 239
J - C	139	- 1176	E - G	93	- 1295

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.91	32.49	4.38
23.92	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.39" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

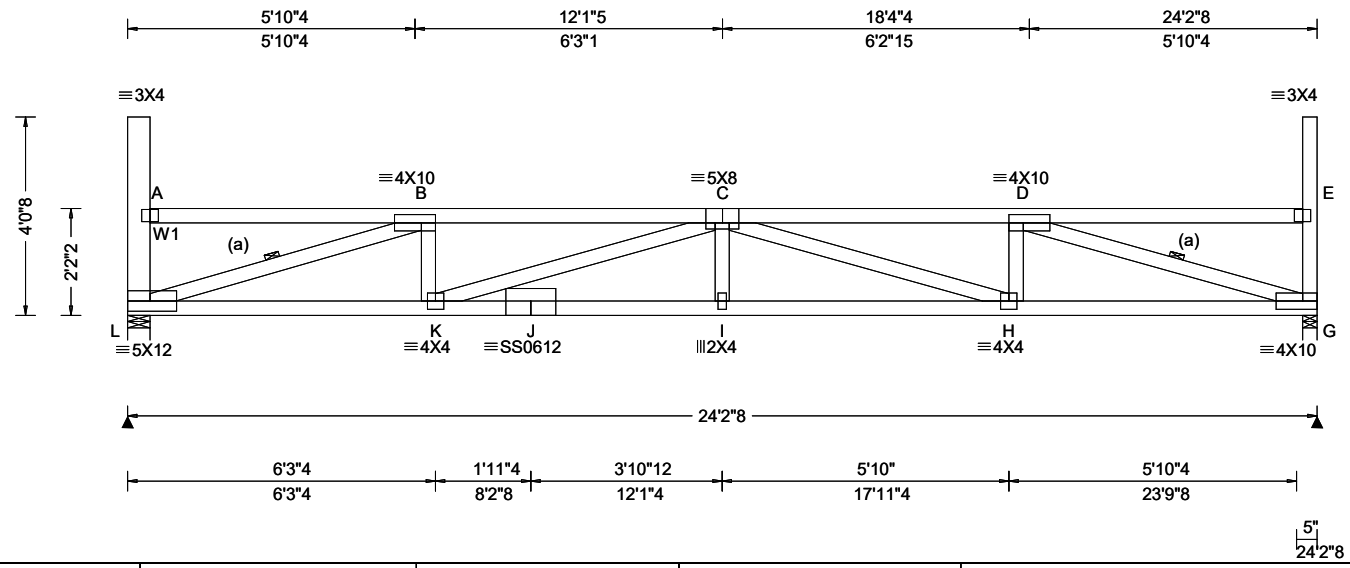
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34029 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T19	Cust: R 9316 JRef: 1Xf293160008 T115 DrwNo: 117.22.1510.43380 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.356 I	815	360
VERT(CL):	0.610 I	476	240
HORZ(LL):	0.075 G	-	-
HORZ(TL):	0.129 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.629
Max BC CSI: 0.622
Max Web CSI: 0.787

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
L	1420	/-	/-		/610	/78	/126
G	1432	/-	/-		/616	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	225	-3716	C - D	216	-3726

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3614	-353	I - H	4787	-296
K - J	4787	-296	H - G	3622	-197
J - I	4787	-296			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	228	-3698	C - H	135	-1116
B - K	667	-2	H - D	678	-1
K - C	136	-1126	D - G	226	-3746

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

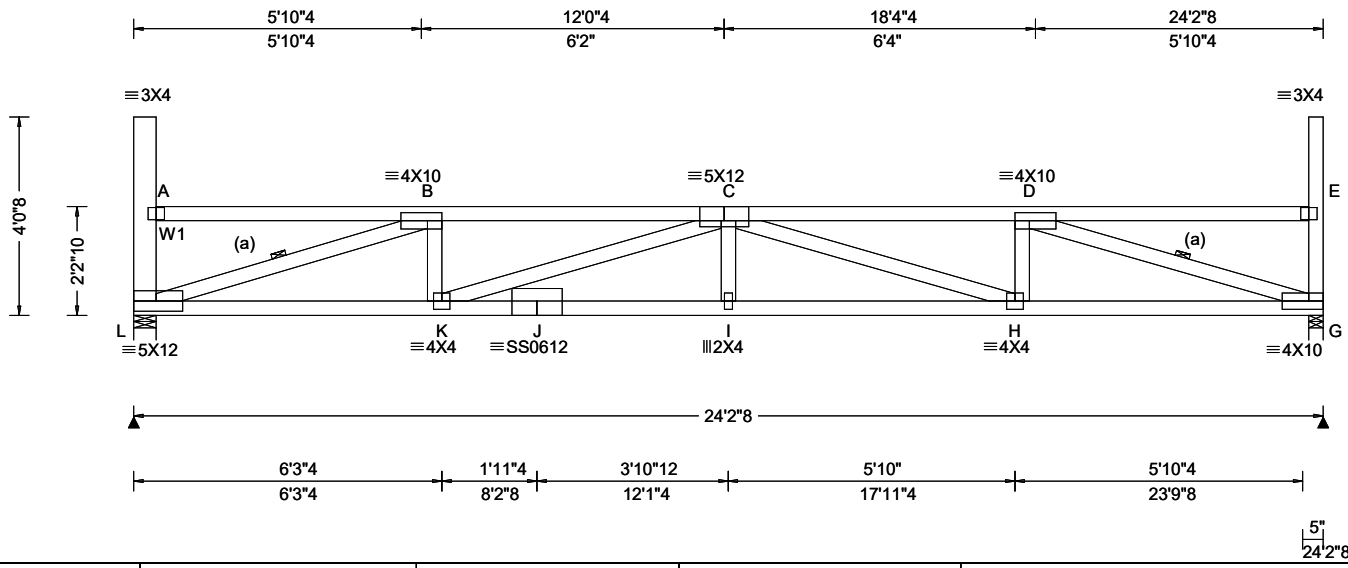
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34030 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T20	Cust: R 9316 JRef: 1Xf293160008 T116 DrwNo: 117.22.1510.46440 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.342 I	850	360
VERT(CL):	0.586 I	496	240
HORZ(LL):	0.074 G	-	-
HORZ(TL):	0.126 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.609
Max BC CSI: 0.610
Max Web CSI: 0.774

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/610	/78	/124
G	1432	/-	/-	/616	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	221	-3638	C - D	212	-3648

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3539	-347	I - H	4686	-292
K - J	4686	-292	H - G	3546	-194
J - I	4686	-292			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	224	-3629	C - H	132	-1093
B - K	667	-1	H - D	679	-1
K - C	133	-1104	D - G	222	-3676

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.82	29.72	4.79
23.92	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

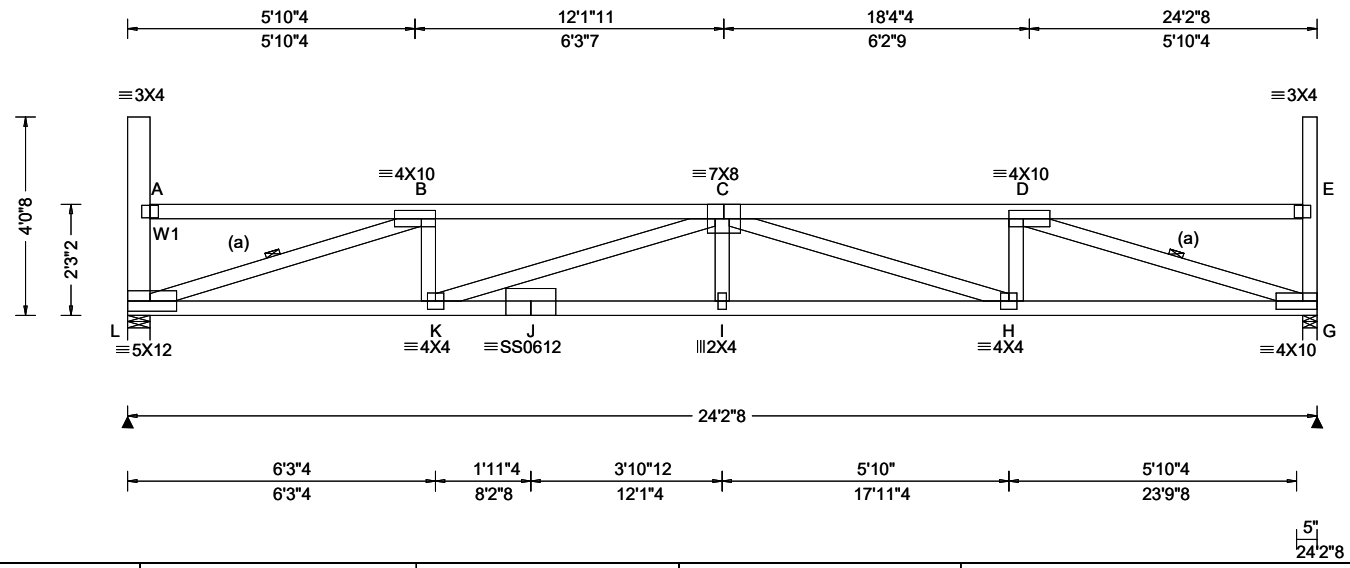
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34031 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T21	Cust: R 9316 JRef: 1Xf293160008 T117 DrwNo: 117.22.1510.51460 / NDW 04/27/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.328 I	886	360
VERT(CL):	0.562 I	517	240
HORZ(LL):	0.072 G	-	-
HORZ(TL):	0.123 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.590
Max BC CSI: 0.600
Max Web CSI: 0.761

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1419	/-	/-	/609	/78	/123
G	1431	/-	/-	/615	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	199	-3560	C - D	187	-3569

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3462	-340	I - H	4581	-286
K - J	4581	-286	H - G	3470	-182
J - I	4581	-286			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	219	-3559	C - H	128	-1068
B - K	666	-1	H - D	677	0
K - C	129	-1078	D - G	217	-3604

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

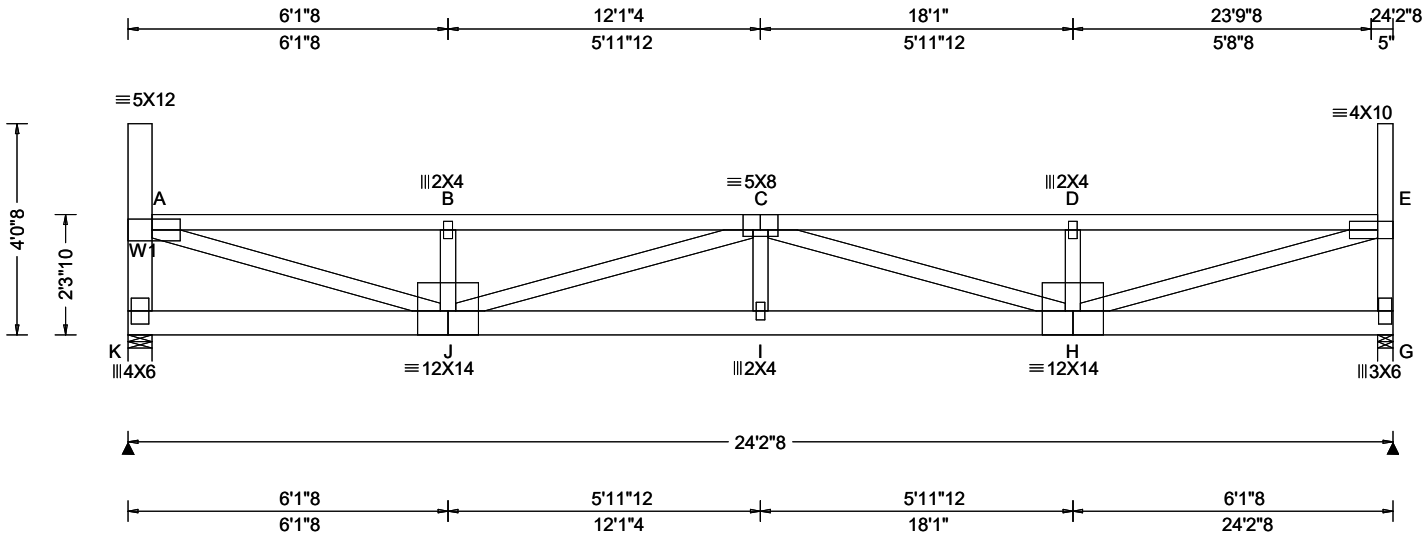
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34032 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T22	Cust: R 9316 JRef: 1Xf293160008 T118 DrwNo: 117.22.1510.55853 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.324 I	896	360
VERT(CL):	0.555 I	523	240
HORZ(LL):	0.051 A	-	-
HORZ(TL):	0.088 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.835
Max BC CSI: 0.587
Max Web CSI: 0.885

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1421	/-	/-	/609	/78	/119
G	1432	/-	/-	/615	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.2 (Truss)
G Brg Wid = 3.5 Min Req = 2.2 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	205	- 3549	C - D	192	- 3550
B - C	204	- 3544	D - E	193	- 3555

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	4663	- 275	I - H	4663	- 275

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	90	- 1258	C - H	114	- 1169
A - J	3543	- 219	H - E	3608	- 220
J - C	119	- 1176	E - G	93	- 1276

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.74	26.95	5.28
23.92	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

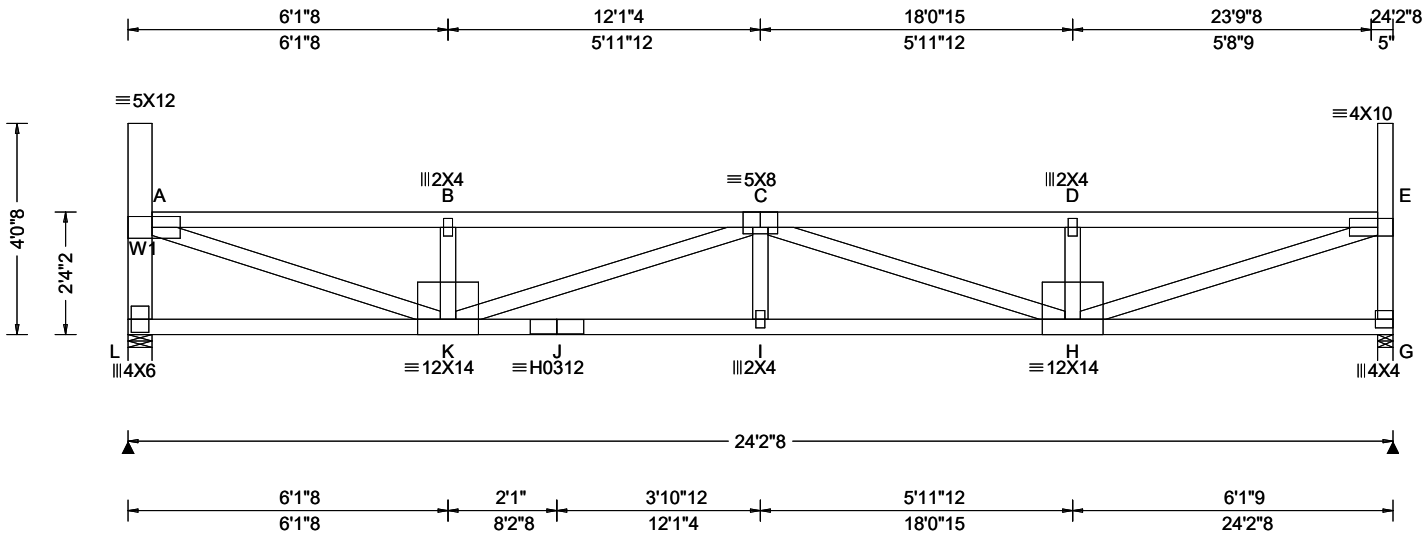
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34033 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T23	Cust: R 9316 JRef: 1Xf293160008 T119 DrwNo: 117.22.1511.00170 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.318 I	912	360
VERT(CL):	0.545 I	532	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.092 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.807
Max BC CSI: 0.585
Max Web CSI: 0.853

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
L	1421	/-	/-		/609	/78	/120
G	1432	/-	/-		/615	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	198	-3403	C - D	184	-3407
B - C	198	-3398	D - E	185	-3412

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4405	-268	I - H	4405	-268
J - I	4405	-268			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	92	-1278	D - H	76	-377
A - K	3408	-213	H - E	3476	-212
K - C	114	-1064	E - G	94	-1297
C - H	111	-1055			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.70	25.57	5.57
23.92	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

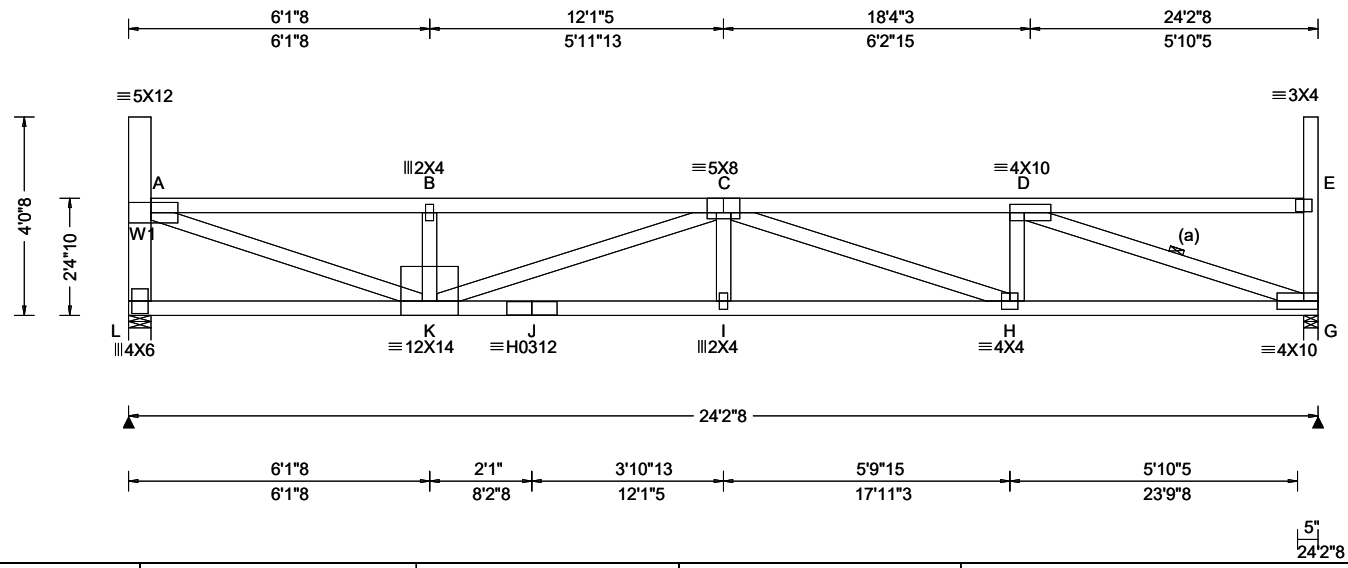
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34034 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T24	Cust: R 9316 JRef: 1Xf293160008 T120 DrwNo: 117.22.1511.04810 / NDW 04/27/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.299 I	972	360
VERT(CL):	0.512 I	567	240
HORZ(LL):	0.054 G	-	-
HORZ(TL):	0.092 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.764
Max BC CSI: 0.579
Max Web CSI: 0.822

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/609	/78	/119
G	1432	/-	/-	/615	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	195	-3337	C - D	177	-3365
B - C	194	-3332			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4318	-265	I - H	4318	-265
J - I	4318	-265	H - G	3272	-176

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	-1279	C - H	111	-1012
A - K	3348	-209	H - D	677	0
K - C	112	-1044	D - G	207	-3421

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

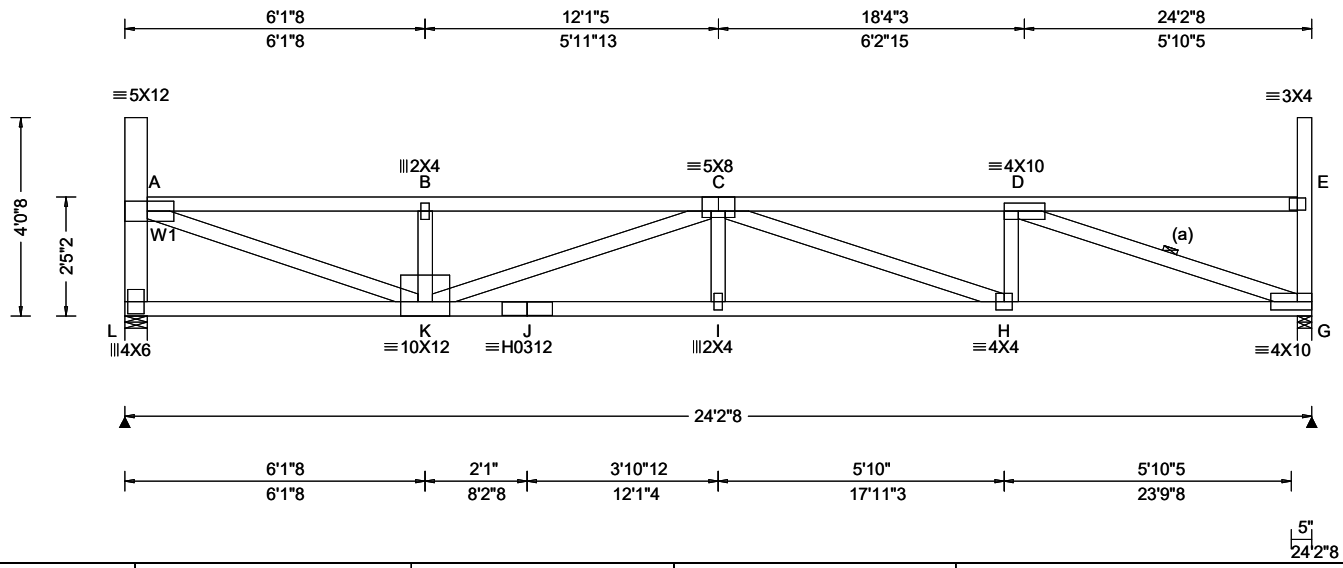
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34035 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T25	Cust: R 9316 JRef: 1Xf293160008 T121 DrwNo: 117.22.1511.13503 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.288 I	999	360
VERT(CL):	0.493 I	589	240
HORZ(LL):	0.053 G	-	-
HORZ(TL):	0.090 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.729
Max BC CSI: 0.570
Max Web CSI: 0.807

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/609	/78	/118
G	1432	/-	/-	/615	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	191	-3273	C - D	174	-3301
B - C	191	-3268			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4234	-262	I - H	4234	-262
J - I	4234	-262	H - G	3209	-174

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	-1279	C - H	109	-993
A - K	3290	-205	H - D	676	0
B - K	76	-376	D - G	204	-3363
K - C	109	-1025			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.61	22.80	5.50
23.92	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

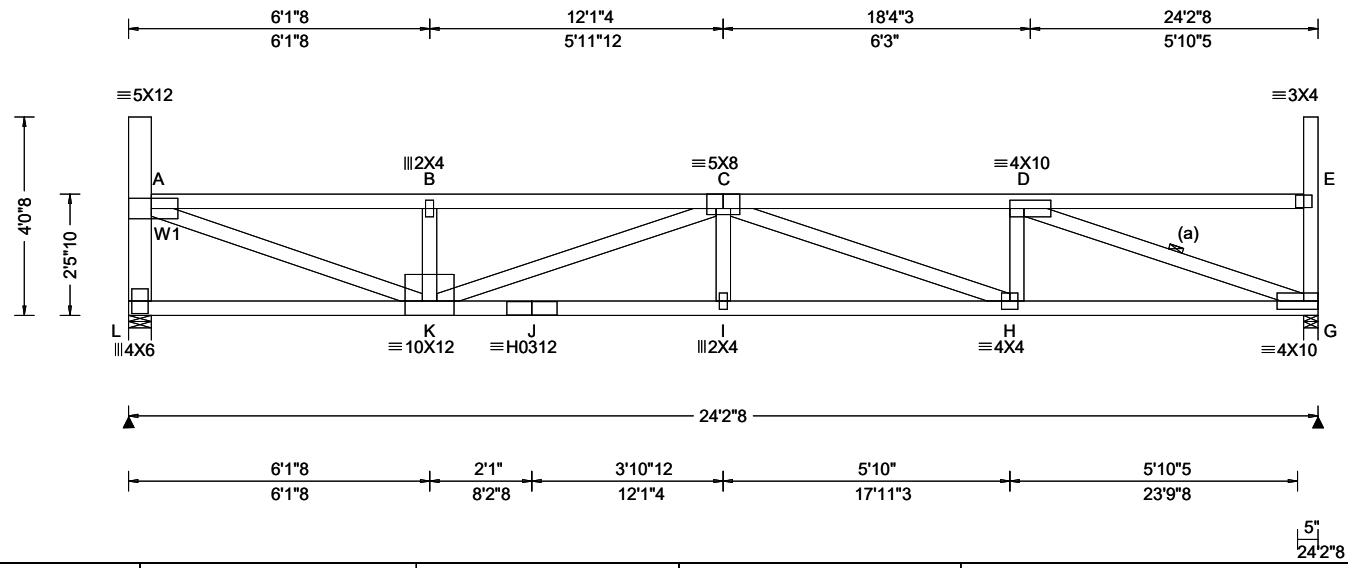
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34036 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T26	Cust: R 9316 JRef: 1Xf293160008 T106 DrwNo: 117.22.1512.03240 / NDW 04/27/2022	



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.278 I	999	360
VERT(CL):	0.476 I	610	240
HORZ(LL):	0.052 G	-	-
HORZ(TL):	0.089 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.696
Max BC CSI: 0.562
Max Web CSI: 0.794

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/609	/78	/116
G	1432	/-	/-	/615	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	189	-3213	C - D	171	-3240
B - C	188	-3208			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4155	-259	I - H	4155	-259
J - I	4155	-259	H - G	3150	-172

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	-1280	C - H	107	-977
A - K	3236	-202	H - D	677	0
B - K	77	-378	D - G	201	-3308
K - C	107	-1008			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

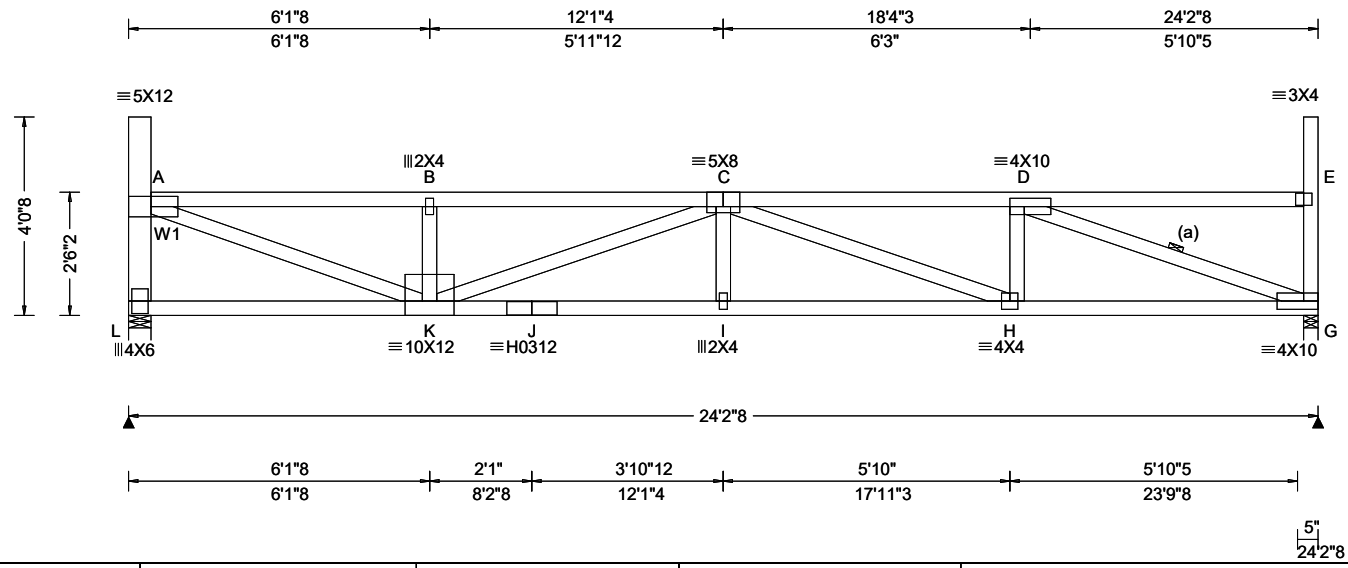
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34037 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T27	Cust: R 9316 JRef: 1Xf293160008 T105 DrwNo: 117.22.1512.09397 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.268 I	999	360
VERT(CL):	0.459 I	632	240
HORZ(LL):	0.051 G	-	-
HORZ(TL):	0.087 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.665
Max BC CSI: 0.557
Max Web CSI: 0.781

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/608	/79	/115
G	1432	/-	/-	/615	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	186	- 3154	C - D	168	- 3180
B - C	185	- 3149			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4077	- 255	I - H	4077	- 255
J - I	4077	- 255	H - G	3092	- 170

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1280	C - H	104	- 960
A - K	3183	- 198	H - D	677	0
B - K	77	- 379	D - G	198	- 3255
K - C	105	- 990			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

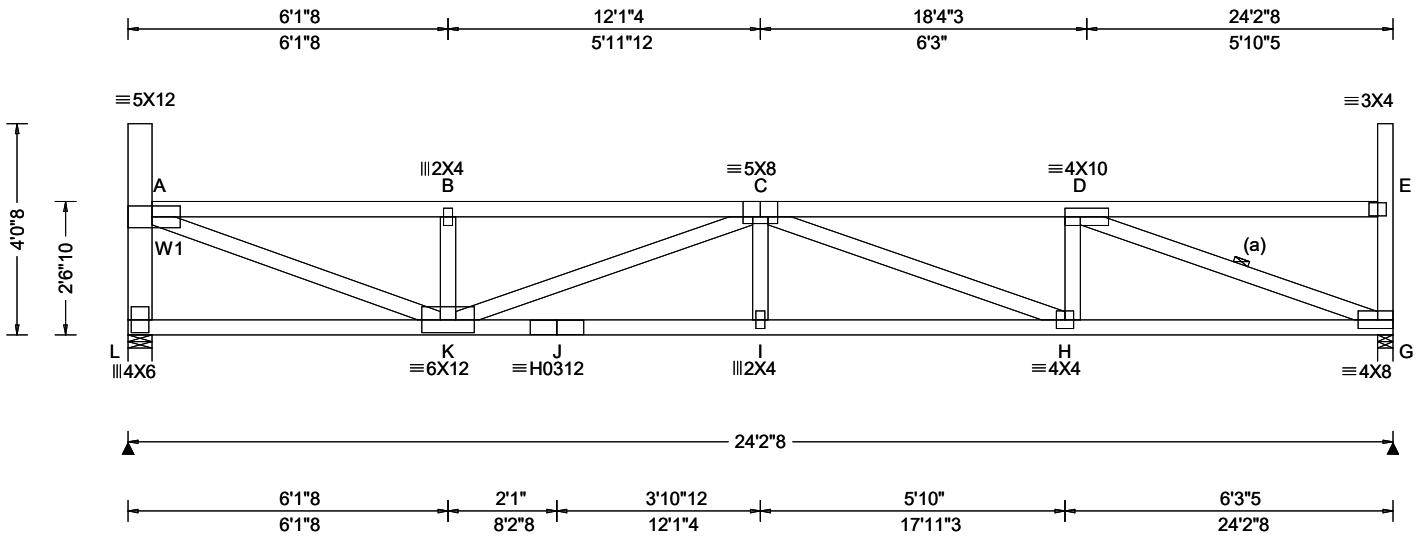
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34038 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T28	Cust: R 9316 JRef: 1Xf293160008 T107 DrwNo: 117.22.1512.13720 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.259	I	999	360
VERT(CL): 0.443	I	655	240
HORZ(LL): 0.050	G	-	-
HORZ(TL): 0.086	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.637
Max BC CSI: 0.551
Max Web CSI: 0.768

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/608	/79	/113
G	1432	/-	/-	/615	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	183	- 3097	C - D	165	- 3123
B - C	182	- 3092			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4003	- 252	I - H	4003	- 252
J - I	4003	- 252	H - G	3036	- 168

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1280	C - H	102	- 944
A - K	3131	- 195	H - D	677	0
B - K	77	- 381	D - G	195	- 3204
K - C	102	- 974			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

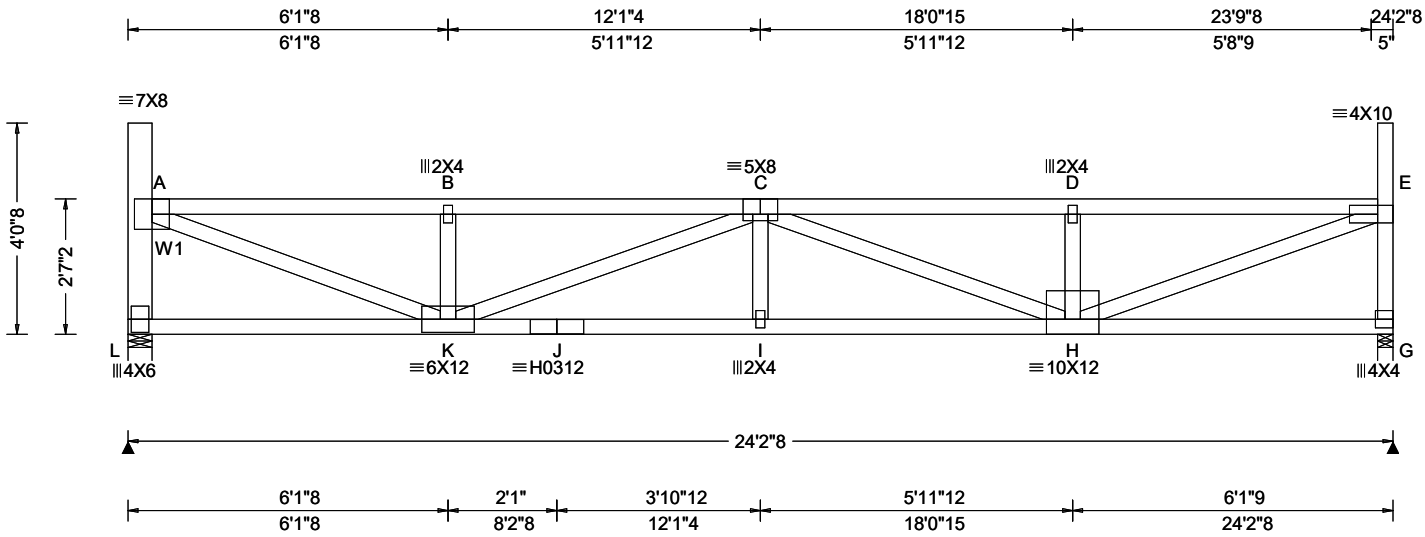
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34039 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T29	Cust: R 9316 JRef: 1Xf293160008 T111 DrwNo: 117.22.1512.18627 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.256 I	999	360
VERT(CL):	0.439 I	661	240
HORZ(LL):	0.049 A	-	-
HORZ(TL):	0.083 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.645
Max BC CSI: 0.540
Max Web CSI: 0.771

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/608	/79	/112
G	1432	/-	/-	/614	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	180	-3042	C - D	165	-3045
B - C	180	-3037	D - E	166	-3050

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3931	-248	I - H	3931	-248
J - I	3931	-248			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	-1280	C - H	97	-949
A - K	3082	-192	D - H	77	-388
B - K	77	-384	H - E	3144	-191
K - C	99	-958	E - G	95	-1299

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.45	17.27	4.16
23.92	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

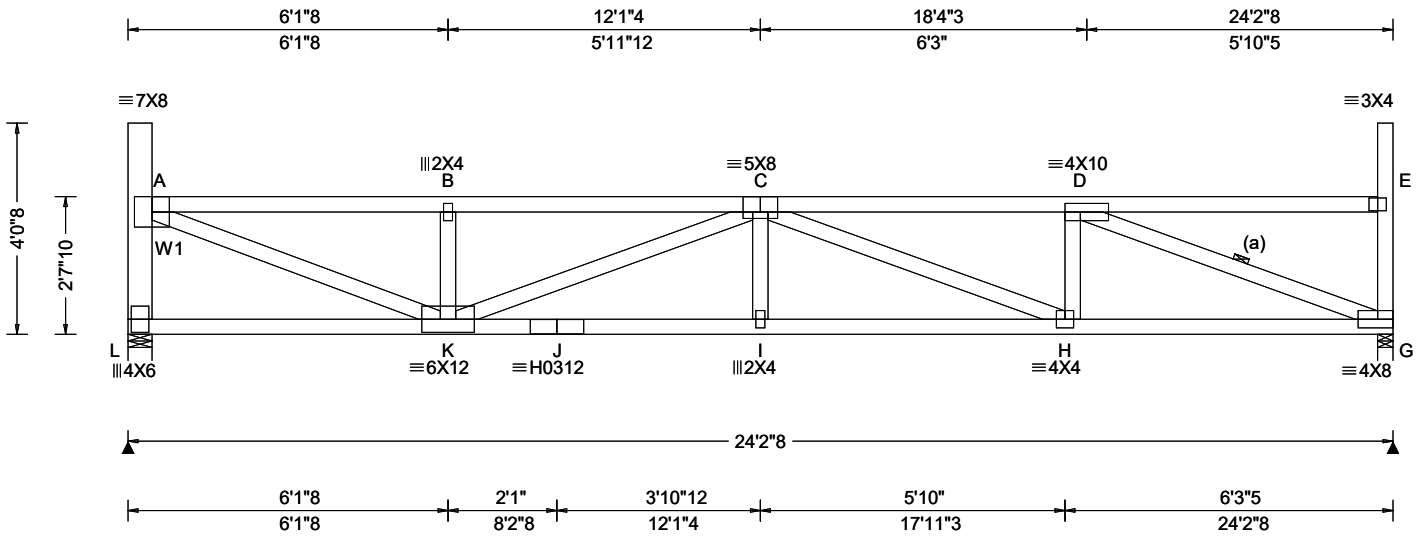
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34040 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T30	Cust: R 9316 JRef: 1Xf293160008 T122 DrwNo: 117.22.1512.23313 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.242 I	999	360
VERT(CL):	0.414 I	700	240
HORZ(LL):	0.048 G	-	-
HORZ(TL):	0.083 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.605
Max BC CSI: 0.541
Max Web CSI: 0.745

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/608	/79	/111
G	1432	/-	/-	/614	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	178	-2989	C - D	159	-3014
B - C	177	-2985			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3862	-246	I - H	3862	-246
J - I	3862	-246	H - G	2930	-164

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	-1281	C - H	98	-915
A - K	3035	-188	H - D	677	0
B - K	77	-384	D - G	189	-3107
K - C	98	-943			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.17". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

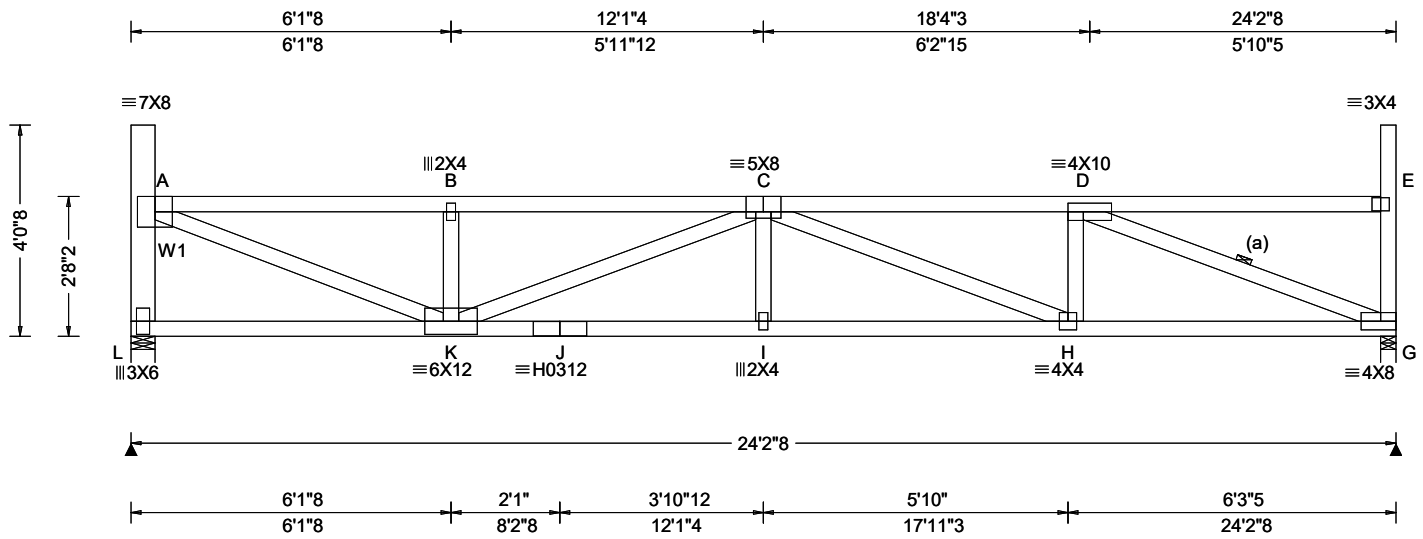
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34041 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T31	Cust: R 9316 JRef: 1Xf293160008 T129 DrwNo: 117.22.1512.29580 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.234 I	999	360
VERT(CL):	0.401 I	724	240
HORZ(LL):	0.047 G	-	-
HORZ(TL):	0.081 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.595
Max BC CSI: 0.536
Max Web CSI: 0.733

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/608	/79	/109
G	1432	/-	/-	/614	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	175	-2938	C - D	156	-2962
B - C	174	-2933			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3795	-242	I - H	3795	-242
J - I	3795	-242	H - G	2880	-162

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	-1281	C - H	96	-900
A - K	2989	-185	H - D	677	0
B - K	77	-385	D - G	186	-3061
K - C	96	-928			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.36	14.50	3.50
23.92	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.17". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

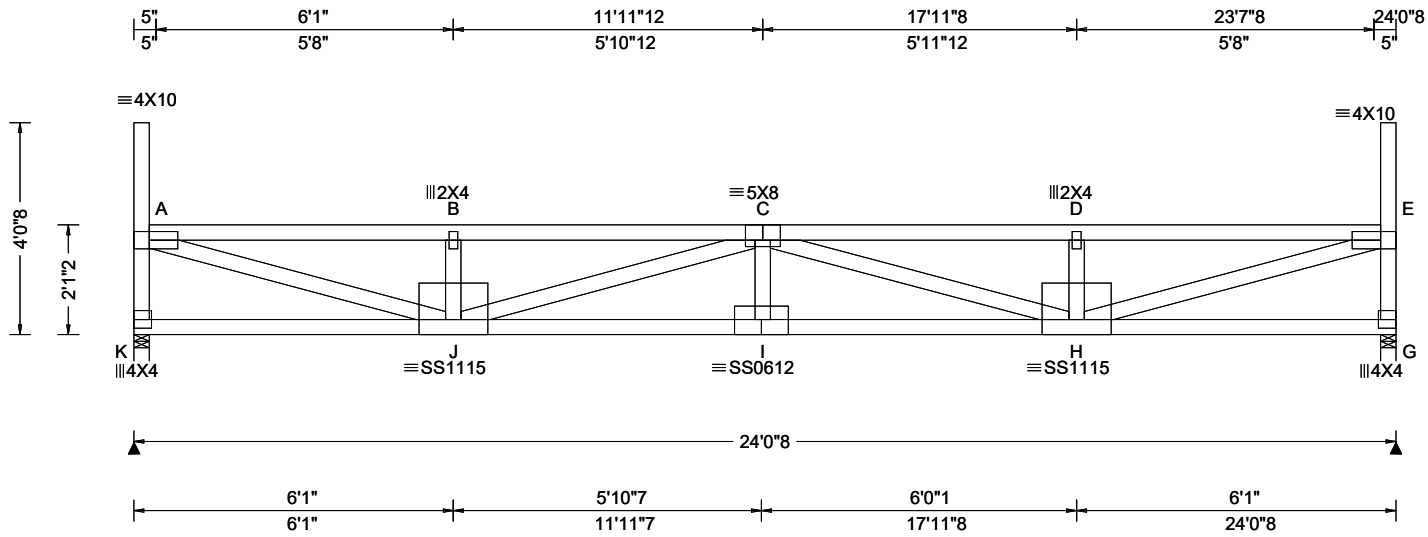
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34042 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T33	Cust: R 9316 JRef: 1Xf293160008 T166 DrwNo: 117.22.1512.50097 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.398 I	725	360
VERT(CL):	0.682 I	423	240
HORZ(LL):	0.059 A	-	-
HORZ(TL):	0.100 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.868
Max BC CSI: 0.652
Max Web CSI: 0.944

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1421	/-	/-	/612	/80	/138
G	1421	/-	/-	/612	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	239	-3812	C - D	238	-3811
B - C	238	-3807	D - E	239	-3816

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	4930	-302	I - H	4930	-302

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	94	-1285	C - H	138	-1169
A - J	3844	-242	H - E	3849	-244
J - C	142	-1174	E - G	94	-1285

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.95	33.87	4.20
23.75	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.40" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

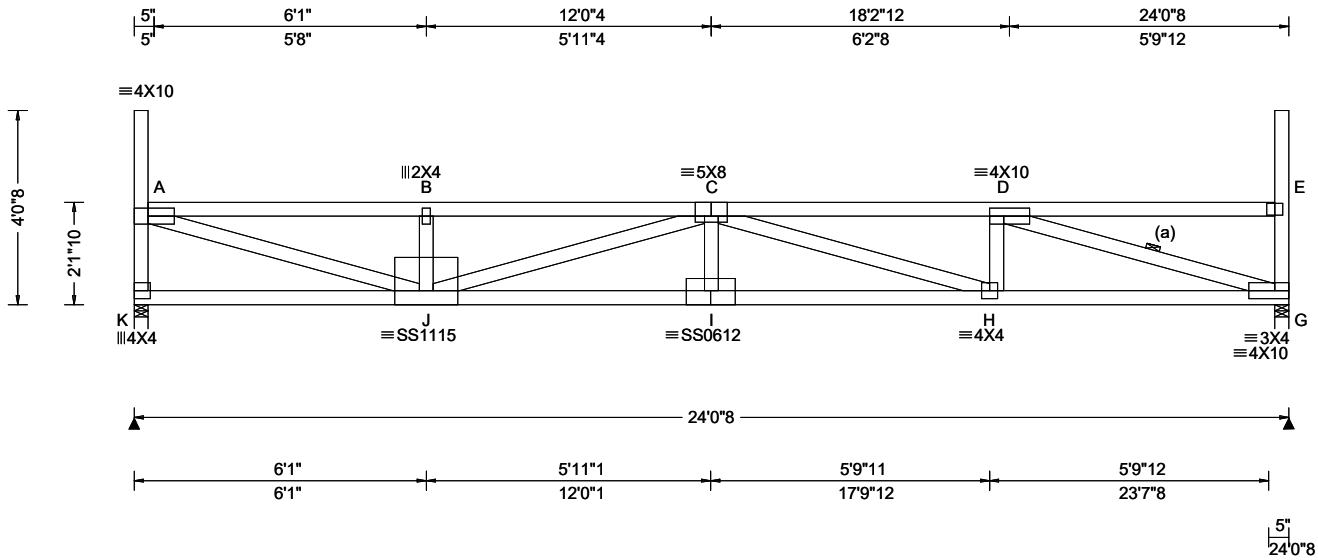
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34043 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T34	Cust: R 9316 JRef: 1Xf293160008 T154 DrwNo: 117.22.1512.56100 / NDW 04/27/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.371 I	776	360
VERT(CL):	0.637 I	453	240
HORZ(LL):	0.059 G	-	-
HORZ(TL):	0.102 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.854
Max BC CSI: 0.639
Max Web CSI: 0.925

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1422	/-	/-	/612	/80	/137
G	1422	/-	/-	/612	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	234	-3732	C - D	231	-3757
B - C	233	-3727			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	4822	-298	H - G	3652	-199
I - H	4822	-298			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	94	-1286	C - H	138	-1118
A - J	3770	-236	H - D	672	-1
J - C	140	-1147	D - G	231	-3771

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.37" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

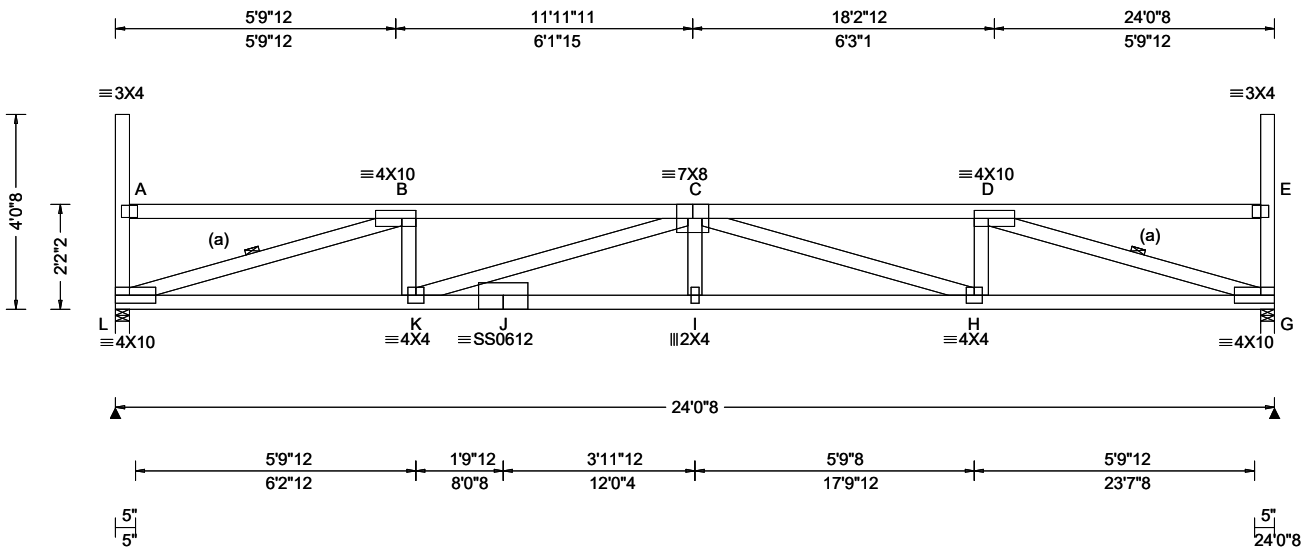
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34044 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T35	Cust: R 9316 JRef: 1Xf293160008 T156 DrwNo: 117.22.1513.00910 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.346 I	832	360
VERT(CL):	0.594 I	486	240
HORZ(LL):	0.074 G	-	-
HORZ(TL):	0.126 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.608
Max BC CSI: 0.612
Max Web CSI: 0.770

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/612	/80	/135
G	1420	/-	/-	/612	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	225	-3672	C - D	225	-3671

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3569	-350	I - H	4710	-291
K - J	4710	-291	H - G	3568	-194
J - I	4710	-291			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	225	-3694	C - H	134	-1093
B - K	673	-1	H - D	672	-1
K - C	135	-1092	D - G	225	-3693

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.35" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

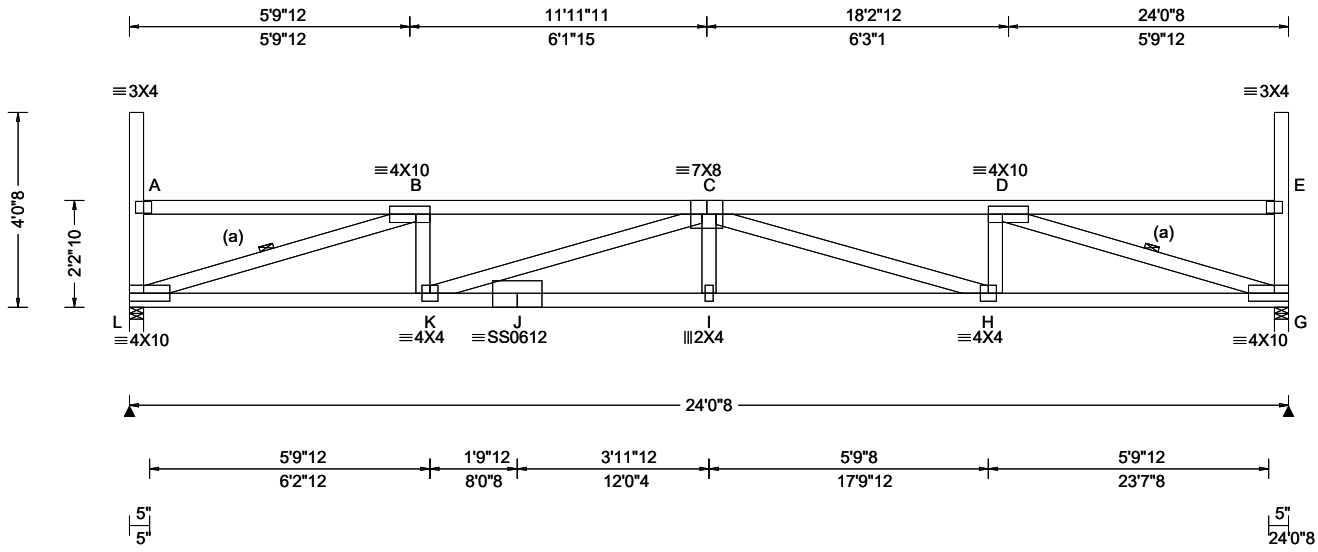
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34045 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T36	Cust: R 9316 JRef: 1Xf293160008 T152 DrwNo: 117.22.1513.04643 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.332 I	868	360
VERT(CL):	0.570 I	506	240
HORZ(LL):	0.072 G	-	-
HORZ(TL):	0.123 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.588
Max BC CSI: 0.603
Max Web CSI: 0.757

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/612	/80	/134
G	1420	/-	/-	/612	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	221	-3595	C - D	221	-3594

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3494	-344	I - H	4610	-287
K - J	4610	-287	H - G	3493	-192
J - I	4610	-287			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	221	-3624	C - H	131	-1071
B - K	673	-1	H - D	672	-1
K - C	132	-1070	D - G	221	-3623

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.82	29.72	4.79
23.75	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.33" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

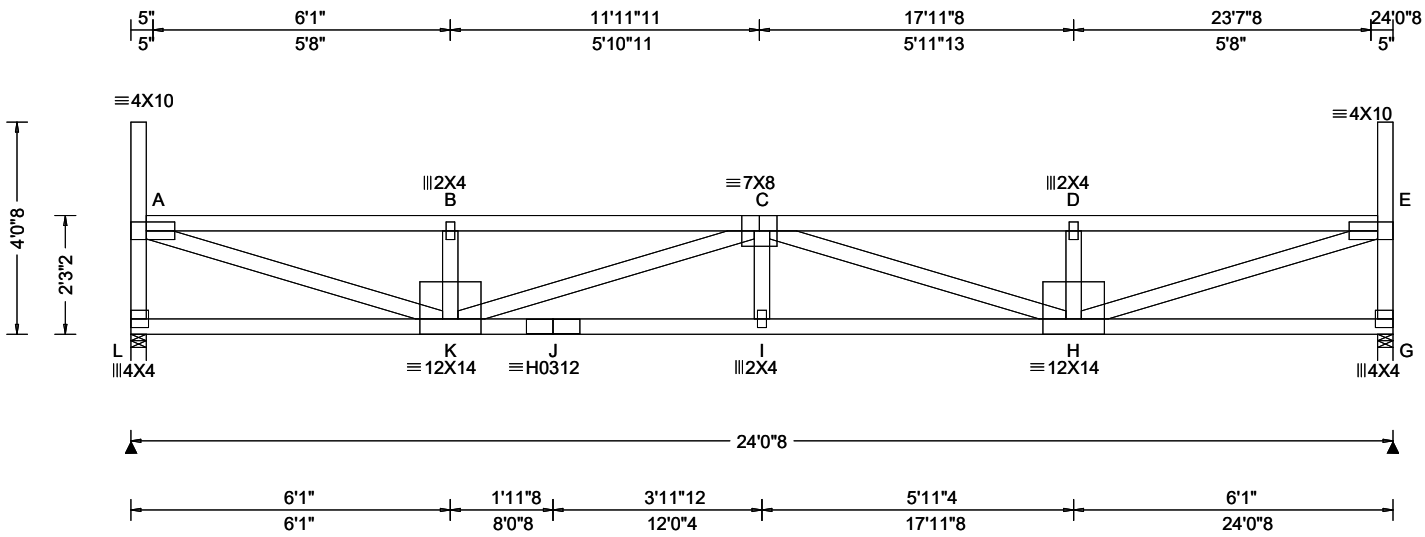
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34046 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T37	Cust: R 9316 JRef: 1Xf293160008 T160 DrwNo: 117.22.1513.09773 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.336 I	858	360
VERT(CL):	0.576 I	500	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.093 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.812
Max BC CSI: 0.594
Max Web CSI: 0.872

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/612	/80	/133
G	1420	/-	/-	/612	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	199	-3499	C - D	198	-3493
B - C	198	-3494	D - E	198	-3498

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4514	-281	I - H	4514	-281
J - I	4514	-281			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	-1286	C - H	123	-1076
A - K	3554	-220	H - E	3553	-221
K - C	127	-1075	E - G	94	-1286

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.78	28.34	5.03
23.75	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.34" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

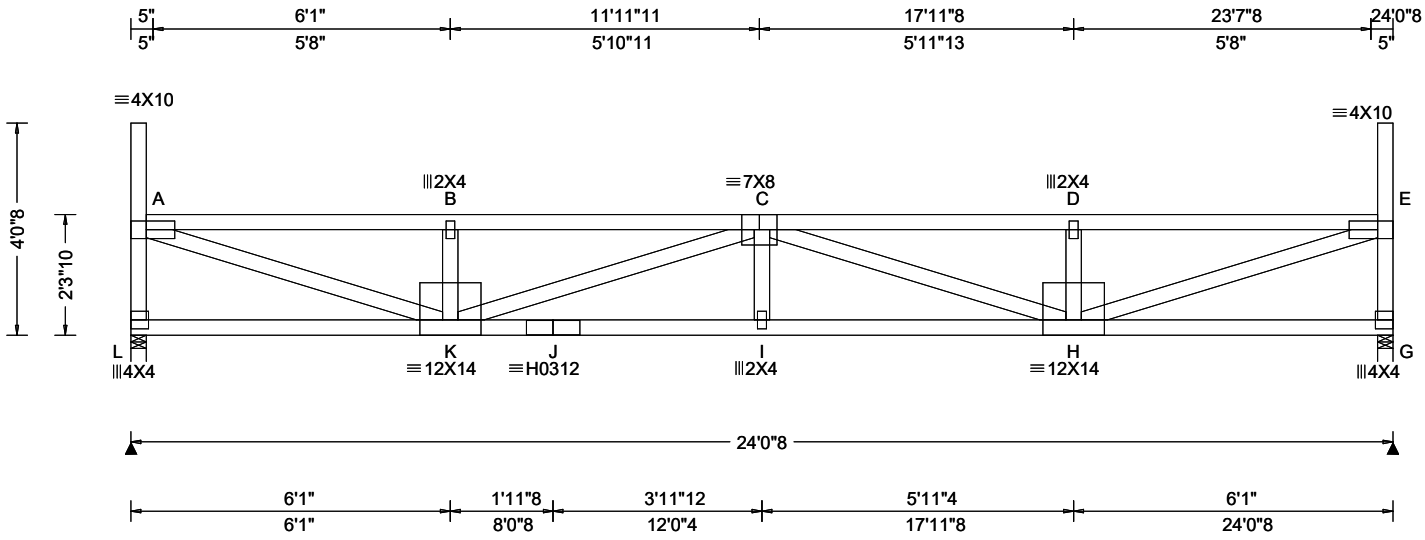
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34047 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T38	Cust: R 9316 JRef: 1Xf293160008 T162 DrwNo: 117.22.1513.15000 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.323 I	893	360
VERT(CL):	0.554 I	521	240
HORZ(LL):	0.053 A	-	-
HORZ(TL):	0.091 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.799
Max BC CSI: 0.585
Max Web CSI: 0.856

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/612	/80	/132
G	1420	/-	/-	/612	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	195	-3429	C - D	194	-3423
B - C	194	-3423	D - E	195	-3428

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4422	-275	I - H	4422	-275
J - I	4422	-275			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	-1287	C - H	112	-1055
A - K	3488	-216	H - E	3487	-217
K - C	115	-1054	E - G	94	-1286

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.74	26.95	5.28
23.75	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

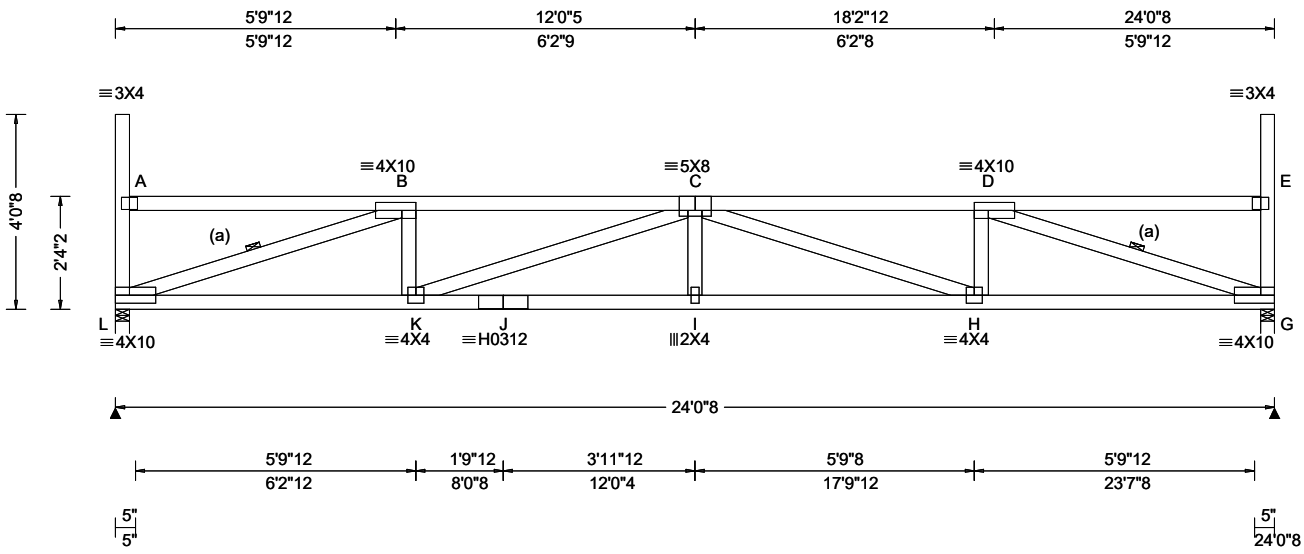
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34048 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T39	Cust: R 9316 JRef: 1Xf293160008 T158 DrwNo: 117.22.1513.20640 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.296 I	975	360
VERT(CL):	0.507 I	569	240
HORZ(LL):	0.068 G	-	-
HORZ(TL):	0.116 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.542
Max BC CSI: 0.578
Max Web CSI: 0.723

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/612	/81	/131
G	1422	/-	/-	/612	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	188	-3386	C - D	189	-3384

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3291	-308	I - H	4342	-276
K - J	4342	-276	H - G	3290	-187
J - I	4342	-276			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	212	-3436	C - H	115	-1016
B - K	674	0	H - D	674	0
K - C	116	-1015	D - G	211	-3435

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.70	25.57	5.57
23.75	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.30" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

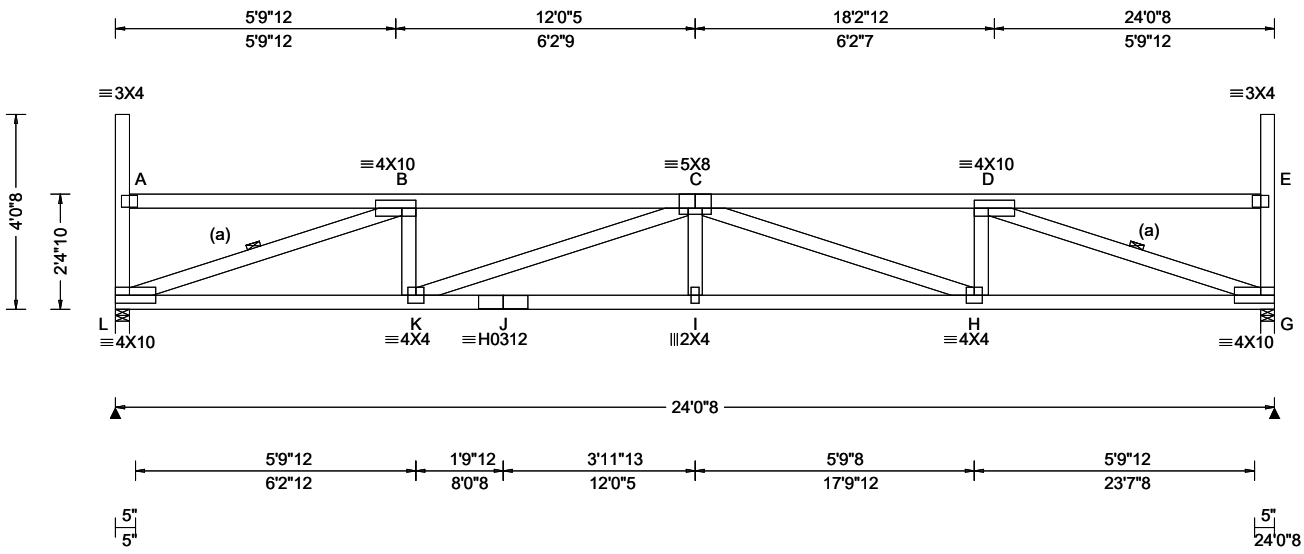
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34049 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T40	Cust: R 9316 JRef: 1Xf293160008 T155 DrwNo: 117.22.1513.28917 / NDW 04/27/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.285 I	999	360
VERT(CL):	0.488 I	590	240
HORZ(LL):	0.066 G	-	-
HORZ(TL):	0.114 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.529
Max BC CSI: 0.571
Max Web CSI: 0.713

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/612	/81	/129
G	1422	/-	/-	/612	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	185	-3320	C - D	185	-3319

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3227	-304	I - H	4257	-272
K - J	4257	-272	H - G	3226	-185
J - I	4257	-272			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	208	-3377	C - H	112	-998
B - K	674	0	H - D	674	0
K - C	114	-996	D - G	208	-3376

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.28" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

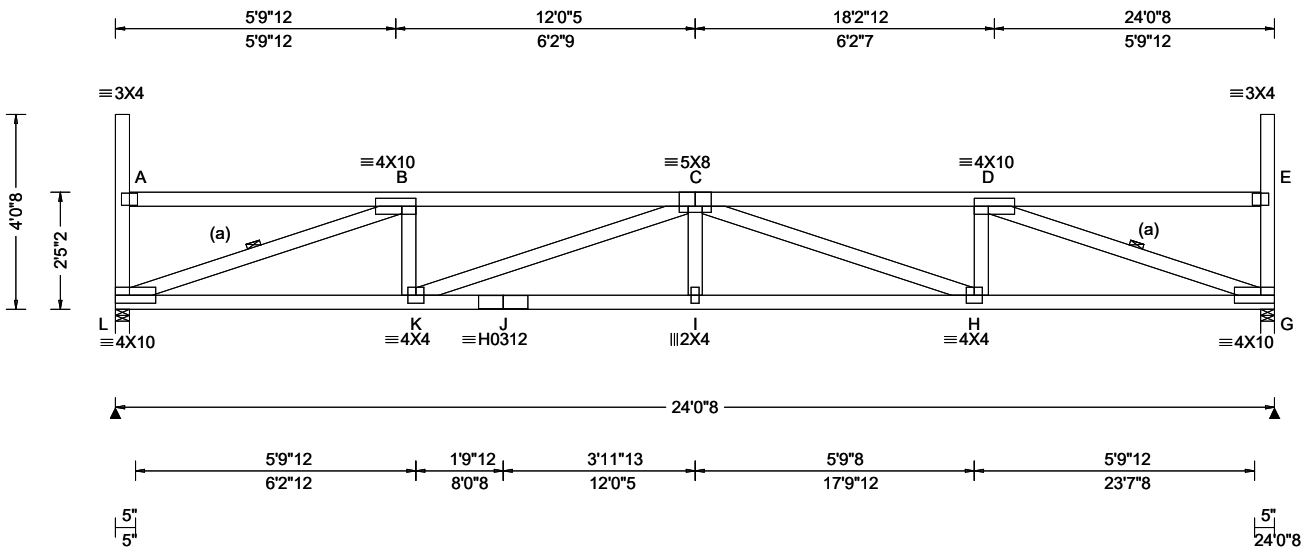
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34050 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T41	Cust: R 9316 JRef: 1Xf293160008 T151 DrwNo: 117.22.1513.35987 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.275 I	999	360
VERT(CL):	0.471 I	612	240
HORZ(LL):	0.065 G	-	-
HORZ(TL):	0.112 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.516
Max BC CSI: 0.565
Max Web CSI: 0.703

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/81	/128
G	1422	/-	/-	/611	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	182	-3257	C - D	182	-3255

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3166	-299	I - H	4175	-268
K - J	4175	-268	H - G	3164	-184
J - I	4175	-268			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	205	-3320	C - H	110	-980
B - K	674	0	H - D	674	0
K - C	111	-979	D - G	205	-3319

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.27" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

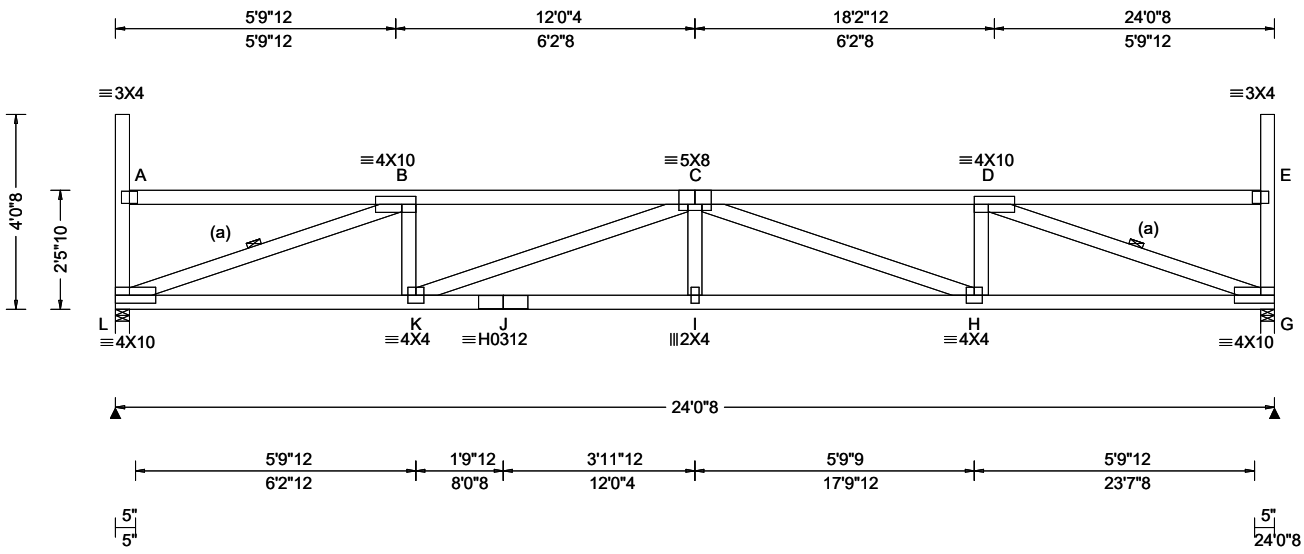
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34051 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T42	Cust: R 9316 JRef: 1Xf293160008 T164 DrwNo: 117.22.1513.49013 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.265 I	999	360
VERT(CL):	0.454 I	635	240
HORZ(LL):	0.064 G	-	-
HORZ(TL):	0.110 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.510
Max BC CSI: 0.559
Max Web CSI: 0.693

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/81	/127
G	1422	/-	/-	/611	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	179	-3196	C - D	179	-3195

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3106	-294	I - H	4096	-265
K - J	4096	-265	H - G	3105	-182
J - I	4096	-265			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	202	-3266	C - H	108	-963
B - K	675	0	H - D	674	0
K - C	109	-962	D - G	201	-3265

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.57	21.42	5.16
23.75	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

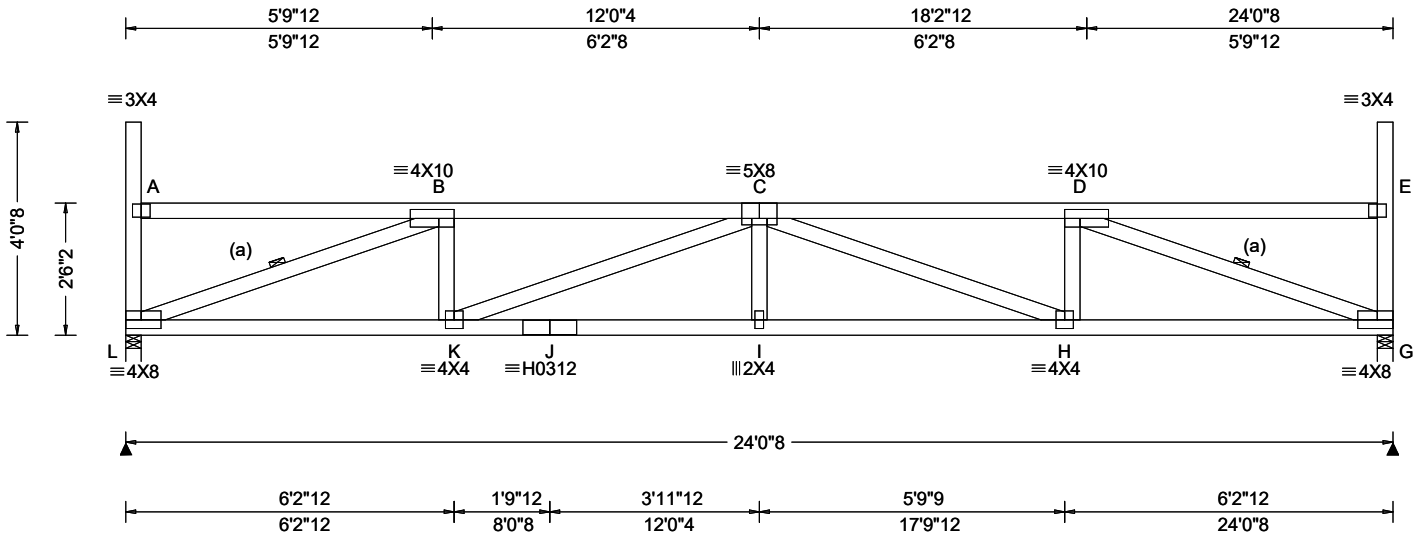
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34052 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T43	Cust: R 9316 JRef: 1Xf293160008 T161 DrwNo: 117.22.1513.57637 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.256 I	999	360
VERT(CL):	0.438 I	658	240
HORZ(LL):	0.063 G	-	-
HORZ(TL):	0.108 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.507
Max BC CSI: 0.553
Max Web CSI: 0.684

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/81	/126
G	1422	/-	/-	/611	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	176	-3137	C - D	177	-3136

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3049	-289	I - H	4020	-261
K - J	4020	-261	H - G	3048	-180
J - I	4020	-261			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	199	-3213	C - H	105	-947
B - K	675	0	H - D	674	0
K - C	106	-946	D - G	198	-3212

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.53	20.04	4.83
23.75	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

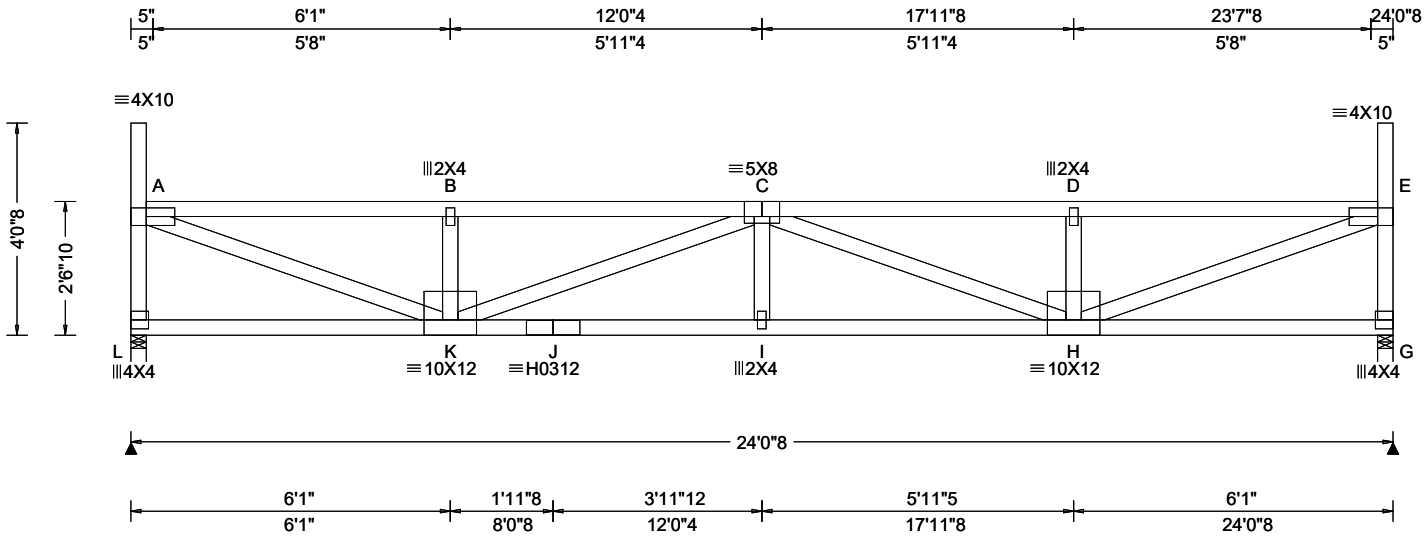
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34053 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T44	Cust: R 9316 JRef: 1Xf293160008 T143 DrwNo: 117.22.1514.03177 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.260	I	999	360
VERT(CL): 0.445	I	647	240
HORZ(LL): 0.048	A	-	-
HORZ(TL): 0.082	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.642
Max BC CSI: 0.540
Max Web CSI: 0.774

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/82	/125
G	1422	/-	/-	/611	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	178	-3063	C - D	177	-3057
B - C	177	-3058	D - E	178	-3062

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3947	-256	I - H	3947	-256
J - I	3947	-256			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	96	-1290	C - H	99	-952
A - K	3153	-196	D - H	77	-384
B - K	77	-383	H - E	3152	-197
K - C	102	-951	E - G	96	-1290

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.49	18.65	4.50
23.75	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

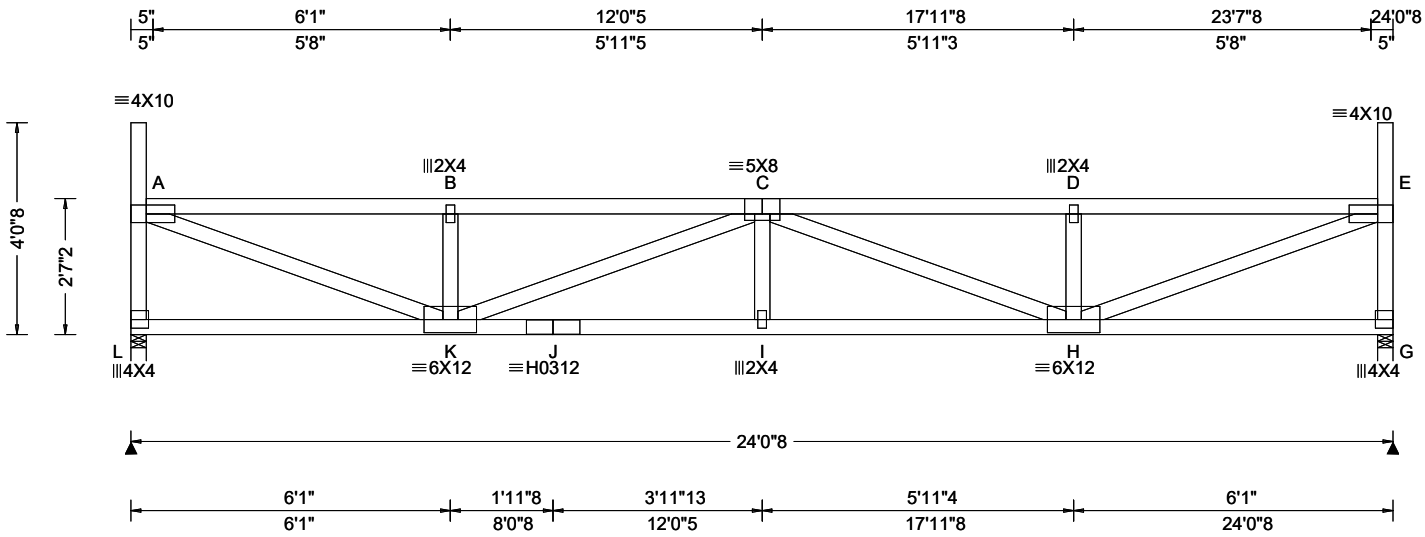
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34054 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T45	Cust: R 9316 JRef: 1Xf293160008 T153 DrwNo: 117.22.1514.10500 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.251 I	999	360
VERT(CL):	0.430 I	670	240
HORZ(LL):	0.047 A	-	-
HORZ(TL):	0.081 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.628
Max BC CSI: 0.535
Max Web CSI: 0.762

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/82	/124
G	1422	/-	/-	/611	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	175	-3009	C - D	174	-3003
B - C	175	-3004	D - E	175	-3008

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3876	-253	I - H	3876	-253
J - I	3876	-253			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	96	-1290	C - H	97	-937
A - K	3104	-193	D - H	77	-385
B - K	77	-385	H - E	3102	-194
K - C	100	-935	E - G	96	-1290

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.45	17.27	4.16
23.75	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.25" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

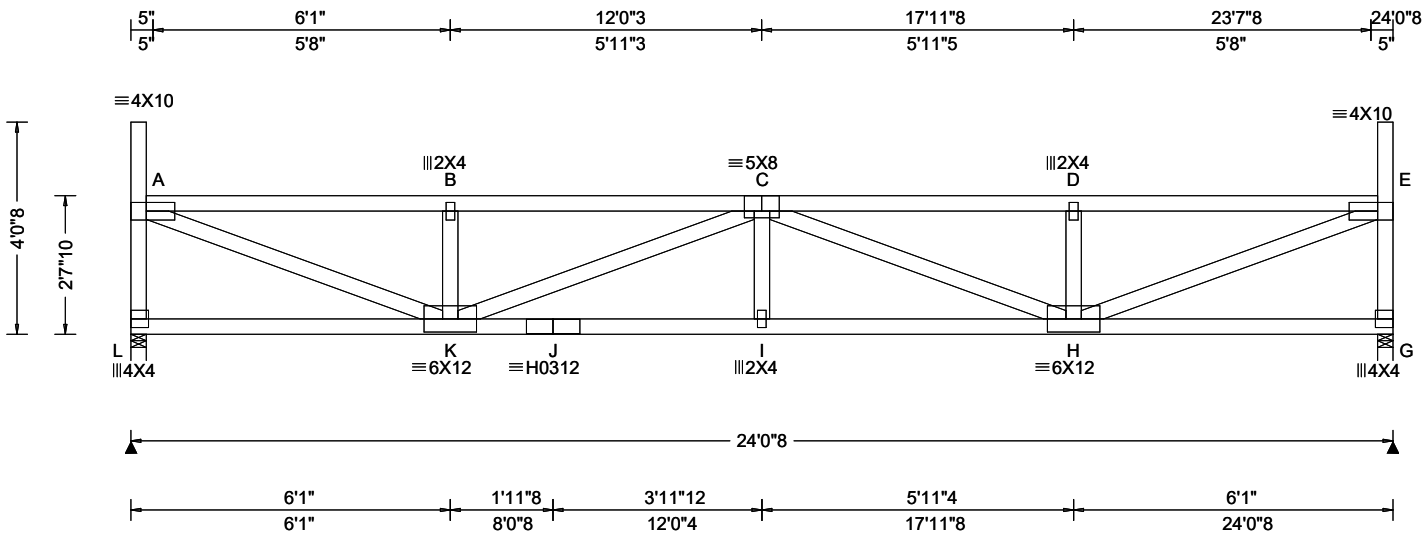
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34055 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T46	Cust: R 9316 JRef: 1Xf293160008 T148 DrwNo: 117.22.1514.14993 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.243 I	999	360
VERT(CL):	0.416 I	692	240
HORZ(LL):	0.046 A	-	-
HORZ(TL):	0.080 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.618
Max BC CSI: 0.528
Max Web CSI: 0.750

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/82	/122
G	1422	/-	/-	/611	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	173	-2956	C - D	172	-2951
B - C	172	-2951	D - E	172	-2956

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3808	-249	I - H	3808	-249
J - I	3808	-249			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	96	-1291	C - H	95	-921
A - K	3055	-190	H - E	3055	-191
B - K	77	-386	D - H	77	-387
K - C	97	-921	E - G	96	-1290

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.41	15.89	3.83
23.75	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.24" DL: 0.17". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

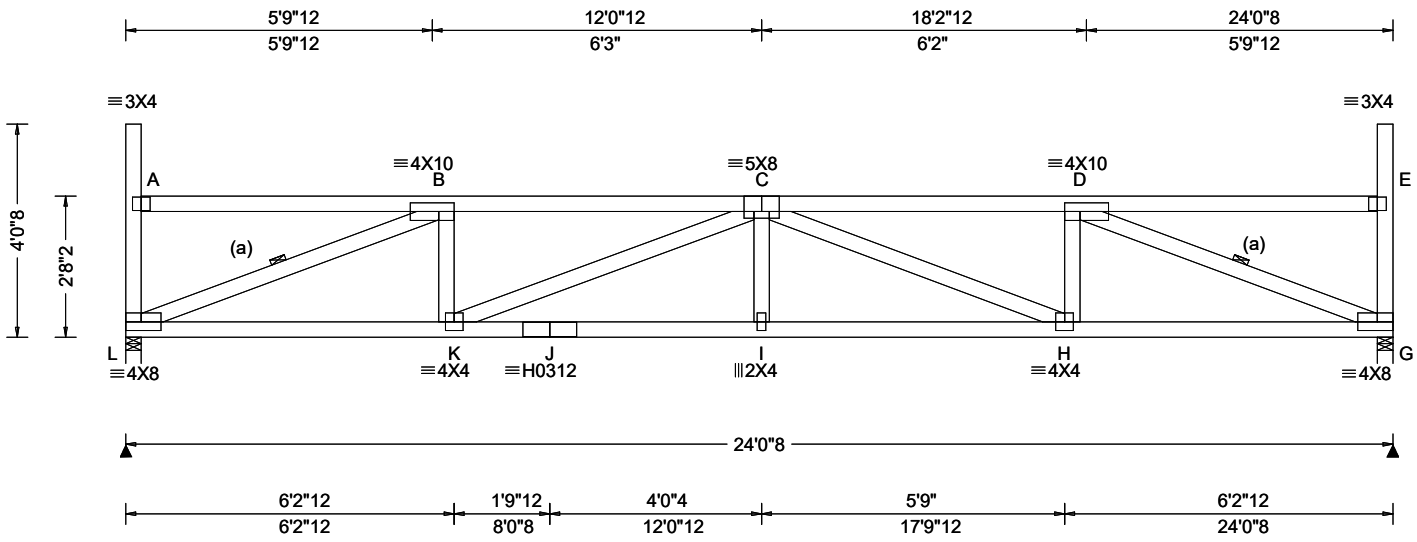
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34056 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T47	Cust: R 9316 JRef: 1Xf293160008 T163 DrwNo: 117.22.1514.18603 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.224 I	999	360
VERT(CL):	0.383 I	752	240
HORZ(LL):	0.058 G	-	-
HORZ(TL):	0.100 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.501
Max BC CSI: 0.534
Max Web CSI: 0.652

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/82	/121
G	1422	/-	/-	/611	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	166	-2923	C - D	166	-2920

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	2841	-272	I - H	3742	-248
K - J	3742	-248	H - G	2838	-173
J - I	3742	-248			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	188	-3024	C - H	96	-890
B - K	673	0	H - D	676	0
K - C	98	-885	D - G	187	-3020

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.22" DL: 0.16". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

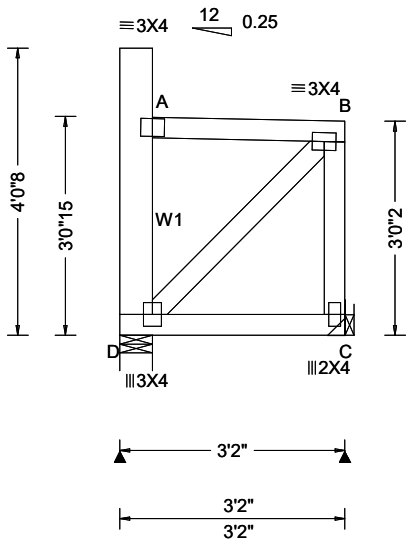
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34057 MONO FROM:	Ply: 1 Qty: 9	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48	Cust: R 9316 JRef: 1Xf293160008 T139 DrwNo: 117.22.1514.23170 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.04 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.001	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.139
Max BC CSI: 0.103
Max Web CSI: 0.028

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	160	/-	/-	/95	/52	/78
C	188	/-	/-	/134	/46	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

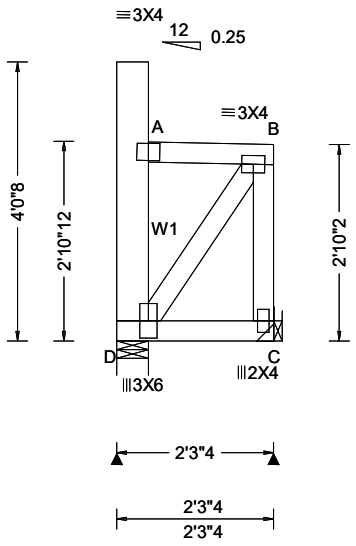
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34059 MONO FROM:	Ply: 1 Qty: 20	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T49	Cust: R 9316 JRef: 1Xf293160008 T230 DrwNo: 117.22.1514.30670 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.87 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.065
Max BC CSI: 0.052
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	107	/-	/-	/87	/77	/80
C	133	/-	/-	/135	/60	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

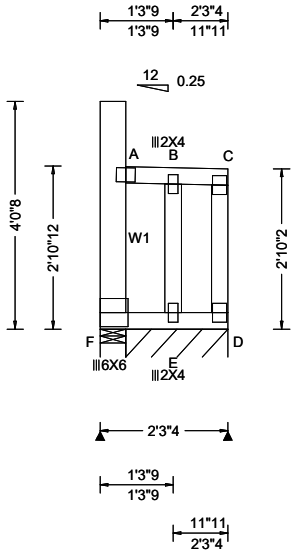
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34060 MONO FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T50	Cust: R 9316 JRef: 1Xf293160008 T128 DrwNo: 117.22.1514.34290 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.87 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.006	A	999	360
VERT(CL): 0.008	A	999	240
HORZ(LL): 0.111	B	-	-
HORZ(TL): 0.128	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.110
Max BC CSI: 0.254
Max Web CSI: 0.115

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	33	/-11	/-	/96	/138	/80
D*	128	/-	/-	/130	/57	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 21.7 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 3X4 except as noted.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

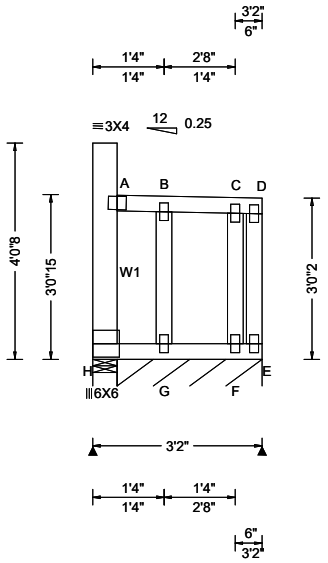
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34061 GABL FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T51	Cust: R 9316 JRef: 1Xf293160008 T114 DrwNo: 117.22.1514.37540 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.04 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.007 A	999	360
VERT(CL):	0.009 A	999	240
HORZ(LL):	0.121 C	-	-
HORZ(TL):	0.142 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.087
Max BC CSI: 0.243
Max Web CSI: 0.109

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	41	/-	/-	/117	/130	/90
E*	113	/-	/-	/96	/43	/-

Wind reactions based on MWFRS
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 32.5 Min Req = -
Bearings H & H are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

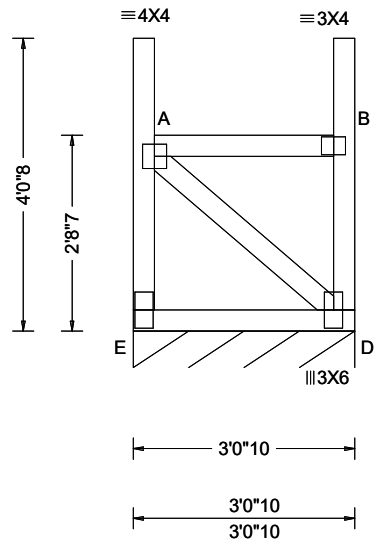
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34062 GABL FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T52	Cust: R 9316 JRef: 1Xf293160008 T216 DrwNo: 117.22.1514.44333 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.000 A	999	360
VERT(CL):	0.000 B	999	240
HORZ(LL):	-0.001 B	-	-
HORZ(TL):	0.002 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.142
Max BC CSI: 0.107
Max Web CSI: 0.221

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	113	/-	/-	/45	/4	/39

Wind reactions based on MWFRS
D Brg Wid = 36.6 Min Req = -
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
A - D	382	-387

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.00	1.34	13.63	2.47
2.76	0.00	20.00	1.34	13.63	2.47

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

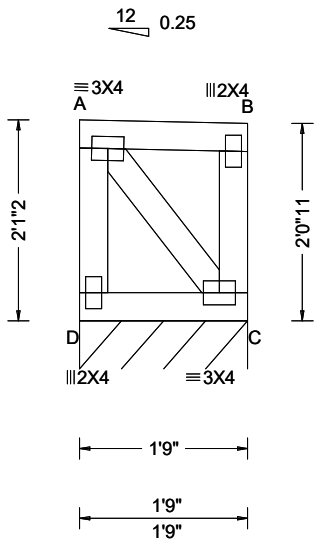
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34063 MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE01	Cust: R 9316 JRef: 1Xf293160008 T188 DrwNo: 117.22.1514.48587 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.08 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.046
Max BC CSI: 0.032
Max Web CSI: 0.021

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 21.0 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

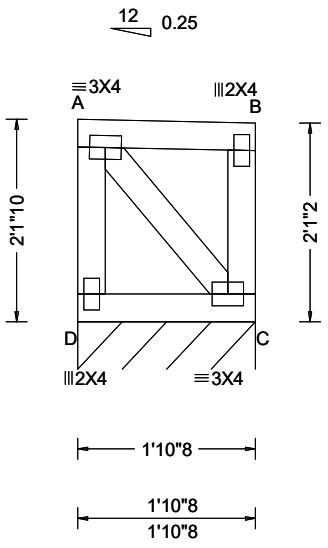
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34064 MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE02	Cust: R 9316 JRef: 1Xf293160008 T189 DrwNo: 117.22.1515.05987 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.12 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.022

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/18

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

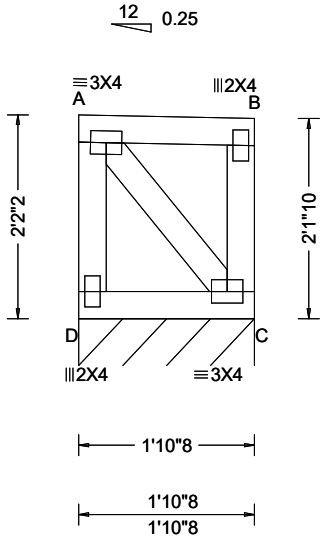
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34065 MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE03	Cust: R 9316 JRef: 1Xf293160008 T190 DrwNo: 117.22.1515.10613 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.16 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.023

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

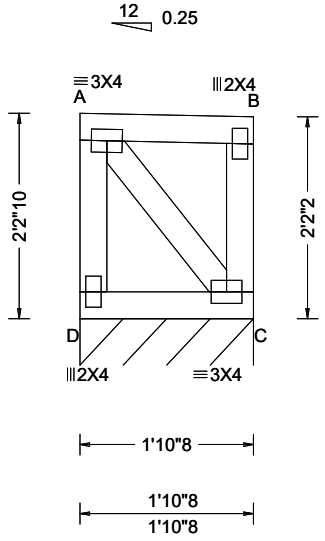
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34066 MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE04	Cust: R 9316 JRef: 1Xf293160008 T192 DrwNo: 117.22.1515.13693 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.20 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.024

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

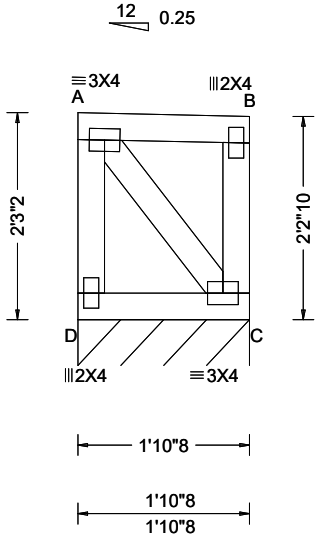
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34067 MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE05	Cust: R 9316 JRef: 1Xf293160008 T215 DrwNo: 117.22.1515.16750 / NDW 04/27/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.24 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.025 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

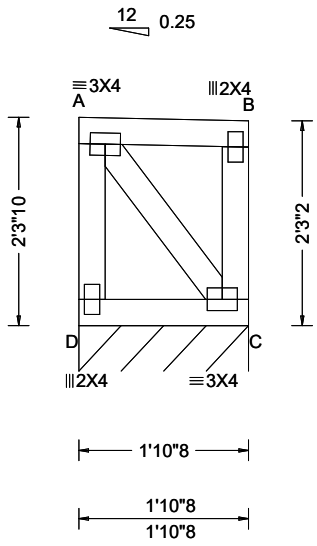
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34068 MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE06	Cust: R 9316 JRef: 1Xf293160008 T219 DrwNo: 117.22.1515.19443 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.28 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.026

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

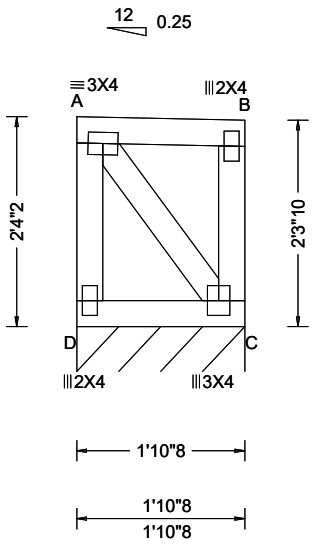
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34069 MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE07	Cust: R 9316 JRef: 1Xf293160008 T220 DrwNo: 117.22.1515.22490 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.32 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.027

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

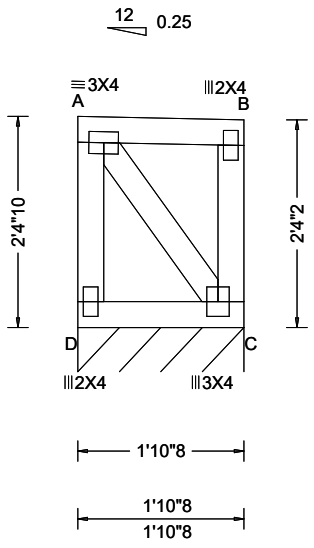
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34070 MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE08	Cust: R 9316 JRef: 1Xf293160008 T221 DrwNo: 117.22.1515.25170 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.028

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

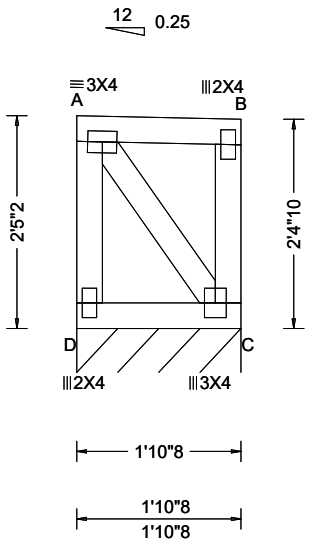
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34071 MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE09	Cust: R 9316 JRef: 1Xf293160008 T222 DrwNo: 117.22.1515.28193 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.41 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.029

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

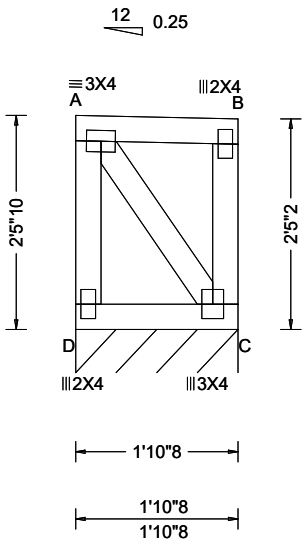
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34072 MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE10	Cust: R 9316 JRef: 1Xf293160008 T223 DrwNo: 117.22.1515.31420 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.45 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.031

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

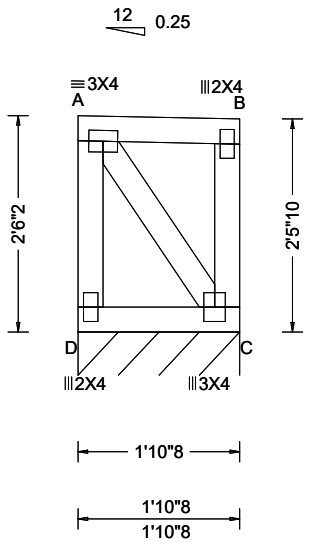
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34073 MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE11	Cust: R 9316 JRef: 1Xf293160008 T224 DrwNo: 117.22.1515.34563 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.49 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.032

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

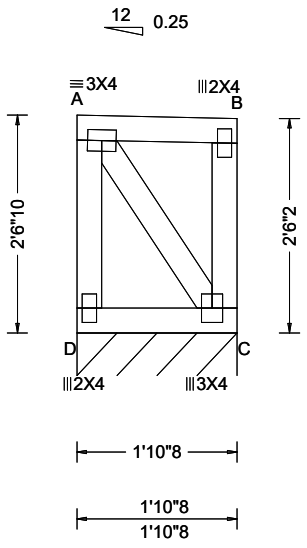
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34074 MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE12	Cust: R 9316 JRef: 1Xf293160008 T225 DrwNo: 117.22.1515.37227 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.033

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

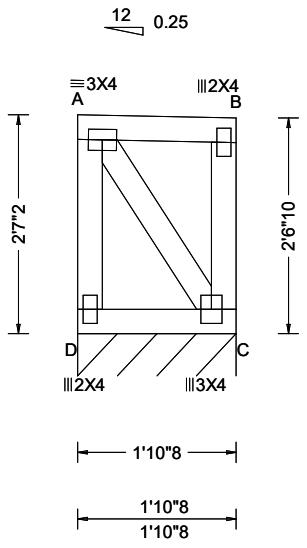
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34075 MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE13	Cust: R 9316 JRef: 1Xf293160008 T226 DrwNo: 117.22.1515.40100 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.57 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.035

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

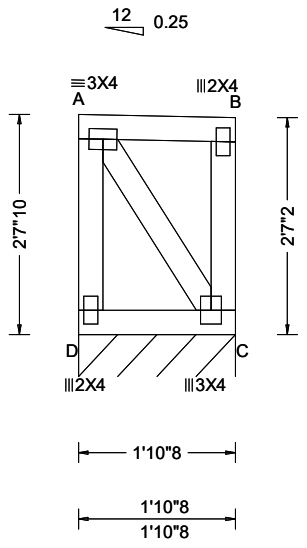
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34076 MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE14	Cust: R 9316 JRef: 1Xf293160008 T227 DrwNo: 117.22.1515.43257 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.62 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.036

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

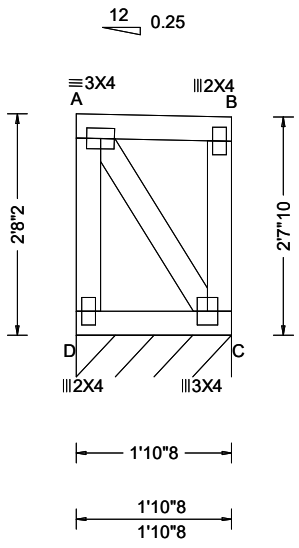
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34077 MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE15	Cust: R 9316 JRef: 1Xf293160008 T228 DrwNo: 117.22.1515.46513 / NDW 04/27/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.000 B - -
NCBCLL: 0.00	Mean Height: 21.66 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.038
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.037
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

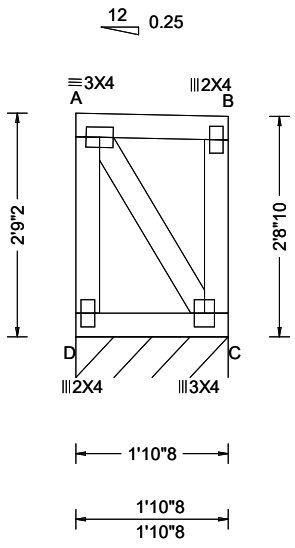
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34078 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE16	Cust: R 9316 JRef: 1Xf293160008 T251 DrwNo: 117.22.1515.50400 / NDW 04/27/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.74 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.040 VIEW Ver: 21.02.00.1005.17

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

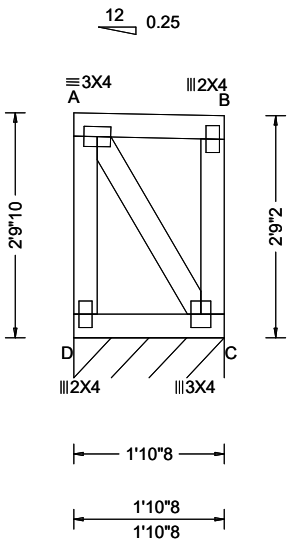
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34079 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE17	Cust: R 9316 JRef: 1Xf293160008 T252 DrwNo: 117.22.1515.54067 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.78 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.041

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

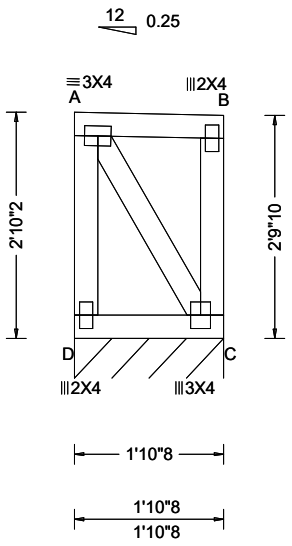
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34080 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE18	Cust: R 9316 JRef: 1Xf293160008 T253 DrwNo: 117.22.1515.58287 / NDW 04/27/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -
NCBCLL: 0.00	Mean Height: 21.82 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.038
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.042
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

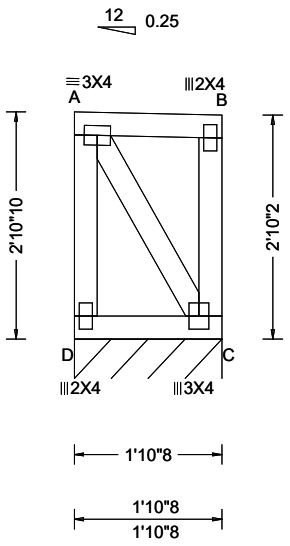
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34081 MONO FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE19	Cust: R 9316 JRef: 1Xf293160008 T254 DrwNo: 117.22.1516.03073 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.001 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.044

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/27

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

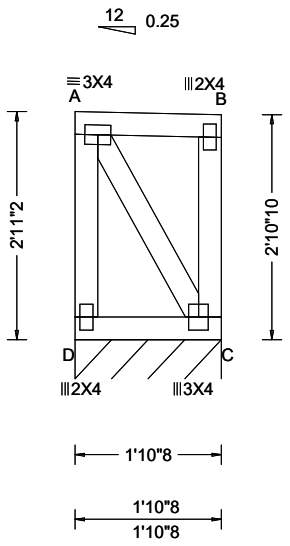
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34082 MONO FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE20	Cust: R 9316 JRef: 1Xf293160008 T255 DrwNo: 117.22.1516.06280 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.57 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.001 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.046

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

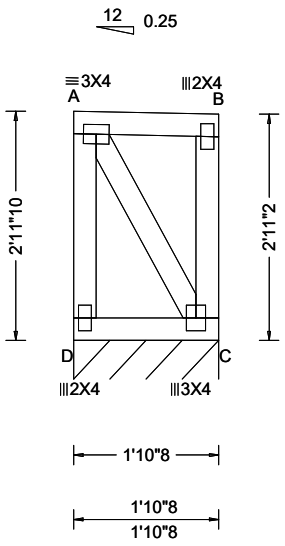
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34083 MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE21	Cust: R 9316 JRef: 1Xf293160008 T256 DrwNo: 117.22.1516.11080 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.95 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.001 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.047

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

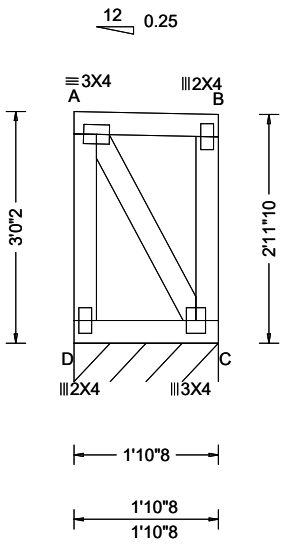
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34084 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE22	Cust: R 9316 JRef: 1Xf293160008 T257 DrwNo: 117.22.1516.14890 / NDW 04/27/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.049 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/29

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

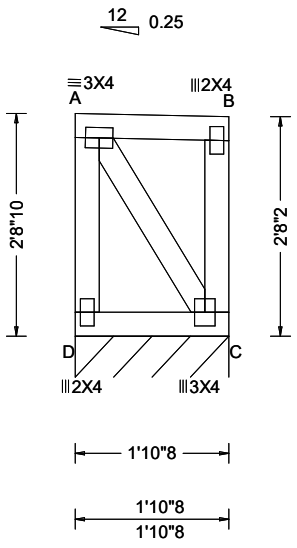
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34085 MONO FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE23	Cust: R 9316 JRef: 1Xf293160008 T231 DrwNo: 117.22.1516.20030 / NDW 04/27/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -
NCBCLL: 0.00	Mean Height: 22.37 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.038
Spacing: 24.0 "	MWFRS Parallel Dist: > 2h	Rep Fac: Yes	Max Web CSI: 0.038
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 29.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

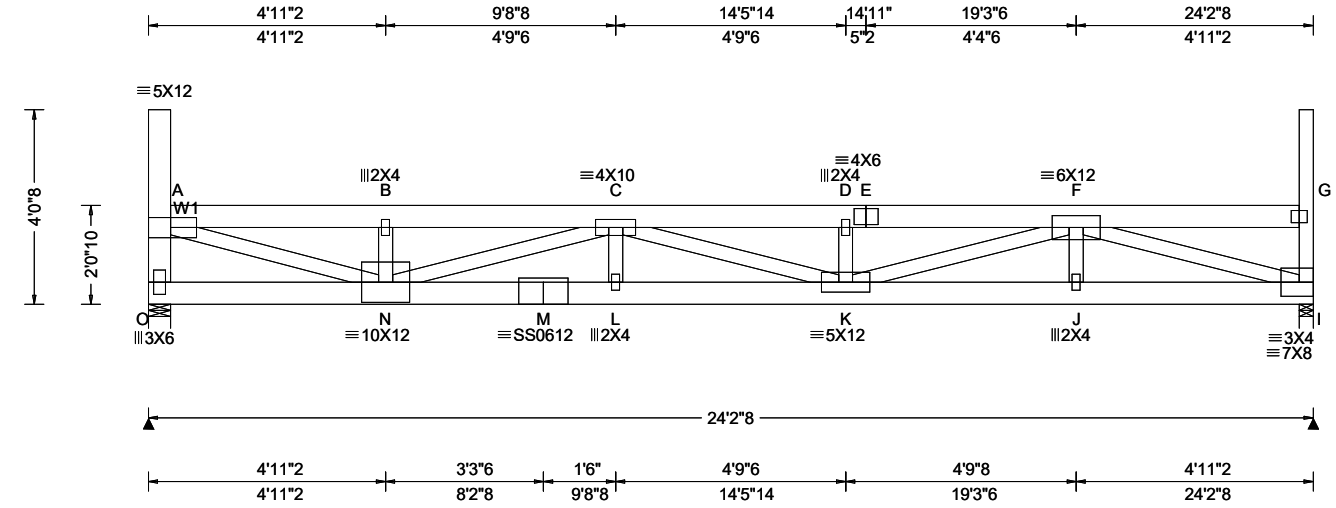
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34095 FLAT FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T16	Cust: R 9316 JRef: 1Xf293160008 T18 DrwNo: 117.22.1510.23493 / NDW 04/27/2022	

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.265 D	999	360
VERT(CL):	0.454 D	639	240
HORZ(LL):	0.040 I	-	-
HORZ(TL):	0.069 I	-	-

Creep Factor: 2.0
Max TC CSI: 0.209
Max BC CSI: 0.603
Max Web CSI: 0.840

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	2301	/-	/-	/-	/390	/-
I	2308	/-	/-	/-	/396	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 1.8 (Truss)
I Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	515	-2972	D - E	772	-4360
B - C	514	-2964	E - F	772	-4360
C - D	772	-4360			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	4355	-765	K - J	2960	-523
M - L	4355	-765	J - I	2960	-523
L - K	4355	-765			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	171	-1032	K - F	1475	-263
A - N	2937	-510	F - I	543	-3070
N - C	264	-1466			

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @11.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 23.92
BC: From 50 plf at 0.00 to 50 plf at 24.21
BC: 160 lb Conc. Load at 2.06,10.06,12.06,14.06 16.06,20.06,22.06
BC: 158 lb Conc. Load at 4.06, 6.06, 8.06,18.06

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.99	34.38	4.14
23.92	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

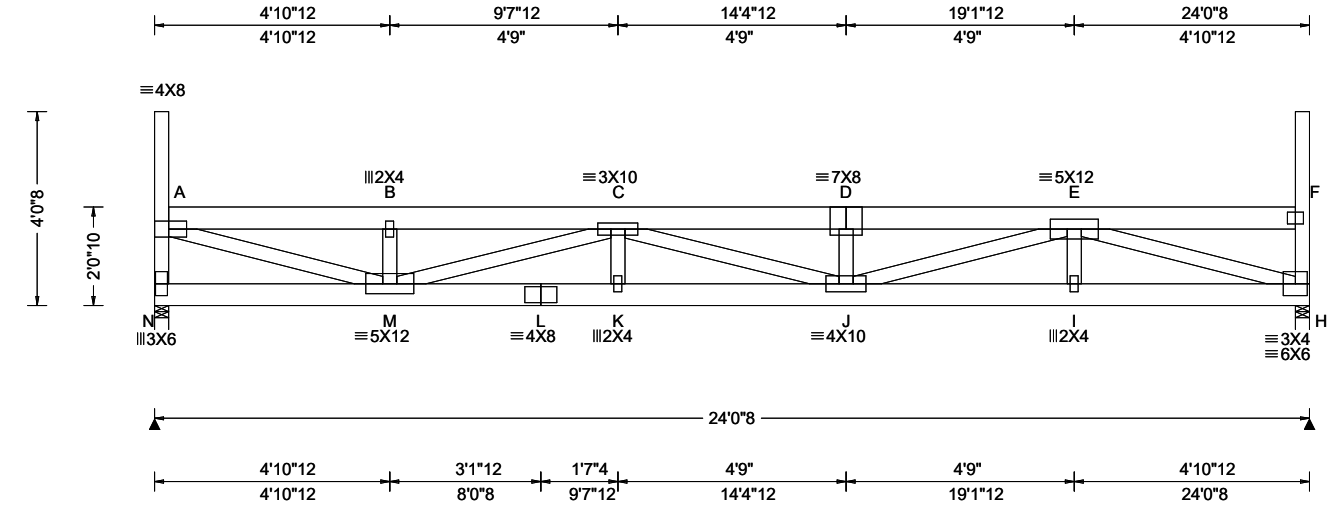
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34097 FLAT FROM:	Ply: 2 Qty: 1	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T32	Cust: R 9316 JRef: 1Xf293160008 T12 DrwNo: 117.22.1512.35983 / NDW 04/27/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.182	D	999	360
VERT(CL): 0.311	D	926	240
HORZ(LL): 0.028	H	-	-
HORZ(TL): 0.047	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.125
Max BC CSI: 0.426
Max Web CSI: 0.582

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1601	/-	/-	/-	/366	/-
H	1633	/-	/-	/-	/367	/-

Wind reactions based on MWFRS
N Brg Wid = 3.5 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	480	-2060	C - D	714	-3020
B - C	479	-2055	D - E	714	-3020

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	3016	-712	J - I	2058	-482
L - K	3016	-712	I - H	2058	-482
K - J	3016	-712			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	161	-714	J - E	1014	-244
A - M	2076	-485	E - H	501	-2137
M - C	245	-1013			

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @11.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	35 plf at	0.29 to	35 plf at	23.75
BC: From	25 plf at	0.00 to	25 plf at	21.90
BC: From	50 plf at	21.90 to	50 plf at	24.04

BC: 160 lb Conc. Load at 1.90, 7.90, 9.90,11.90 13.90,15.90,19.90,21.90
BC: 158 lb Conc. Load at 3.90, 5.90,17.90

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.99	34.38	4.14
23.75	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.18" DL: 0.13". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

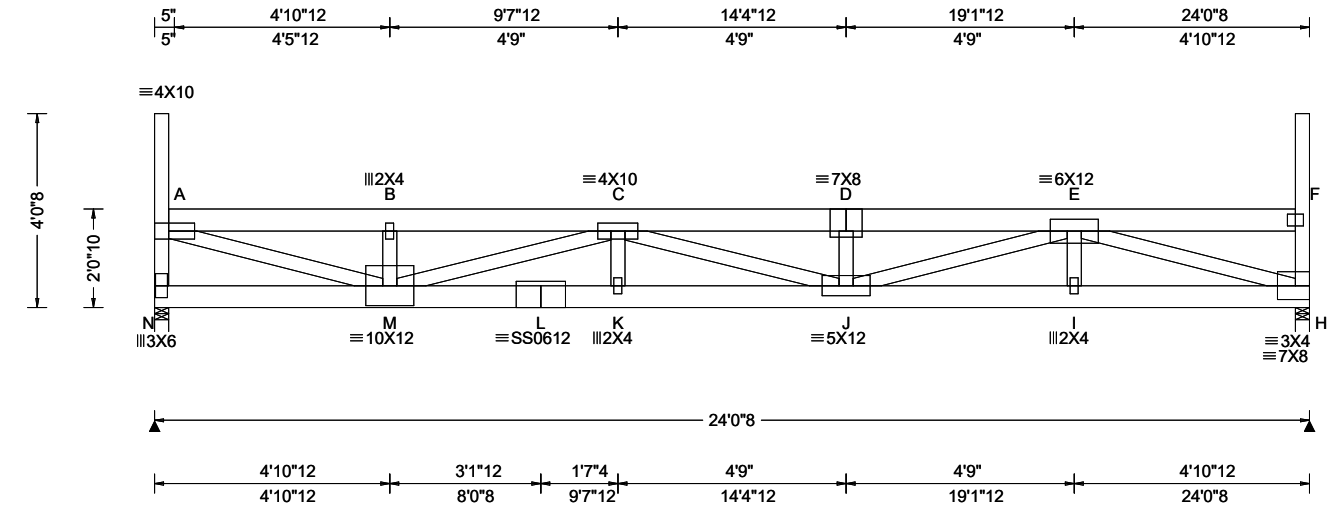
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34098 FLAT FROM:	Ply: 2 Qty: 1	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T32	Cust: R 9316 JRef: 1Xf293160008 T20 DrwNo: 117.22.1512.41580 / NDW 04/27/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.258	D	999	360
VERT(CL): 0.443	D	651	240
HORZ(LL): 0.039	H	-	-
HORZ(TL): 0.067	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.204
Max BC CSI: 0.594
Max Web CSI: 0.823

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	2304	/-	/-	/-	/375	/-
H	2288	/-	/-	/-	/377	/-

Wind reactions based on MWFRS
N Brg Wid = 3.5 Min Req = 1.8 (Truss)
H Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	492	-2935	C - D	731	-4292
B - C	491	-2927	D - E	731	-4292

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	4291	-727	J - I	2915	-493
L - K	4291	-727	I - H	2915	-493
K - J	4291	-727			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	166	-1035	J - E	1453	-251
A - M	2956	-497	E - H	513	-3025
M - C	249	-1438			

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @11.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 23.75
BC: From 50 plf at 0.00 to 50 plf at 24.04
BC: 158 lb Conc. Load at 1.90, 3.90, 5.90, 7.90 9.90,15.90,17.90,19.90
BC: 160 lb Conc. Load at 11.90,13.90,21.90

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.99	34.38	4.14
23.75	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

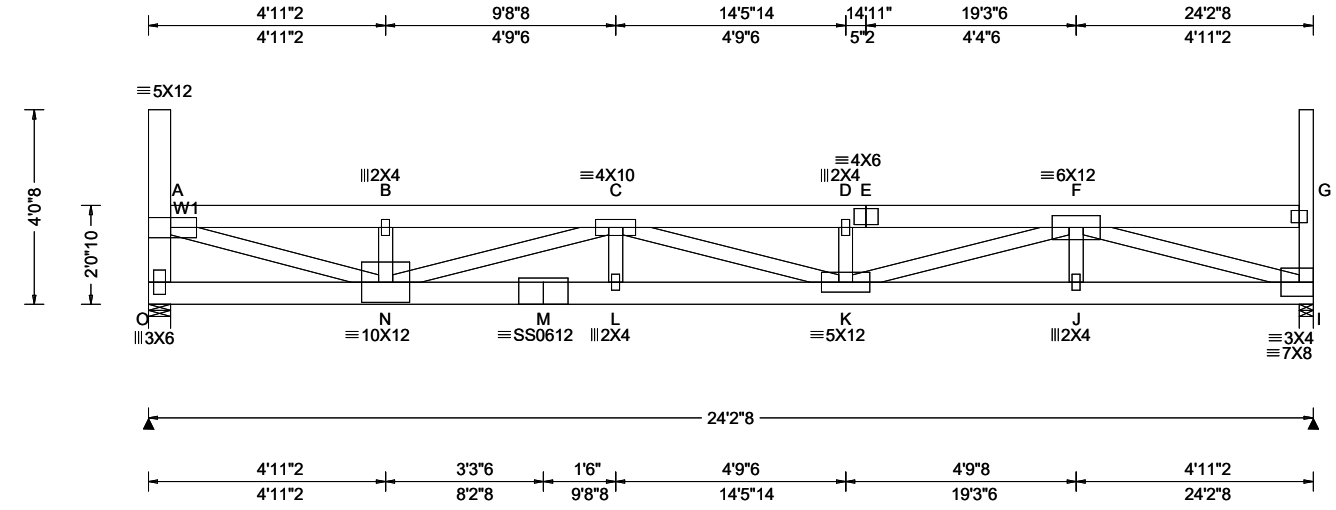
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34096 FLAT FROM:	Ply: 2 Qty: 1	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T16	Cust: R 9316 JRef: 1Xf293160008 T21 DrwNo: 117.22.1510.29380 / NDW 04/27/2022	

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.265 D	999	360
VERT(CL):	0.454 D	640	240
HORZ(LL):	0.040 I	-	-
HORZ(TL):	0.069 I	-	-

Creep Factor: 2.0
Max TC CSI: 0.208
Max BC CSI: 0.602
Max Web CSI: 0.839

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	2295	/-	/-	/-	/391	/-
I	2309	/-	/-	/-	/379	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 1.8 (Truss)
I Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	520	-2971	D - E	751	-4355
B - C	519	-2964	E - F	751	-4355
C - D	751	-4355			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	4354	-762	K - J	2956	-502
M - L	4354	-762	J - I	2956	-502
L - K	4354	-762			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	173	-1032	K - F	1474	-263
A - N	2938	-515	F - I	521	-3066
N - C	256	-1465			

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @11.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 23.92
BC: From 50 plf at 0.00 to 50 plf at 24.21
BC: 160 lb Conc. Load at 2.15, 6.15, 8.15,10.15 12.15
BC: 158 lb Conc. Load at 4.15,14.15,16.15,18.15 20.15,22.15

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.99	34.38	4.14
23.92	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

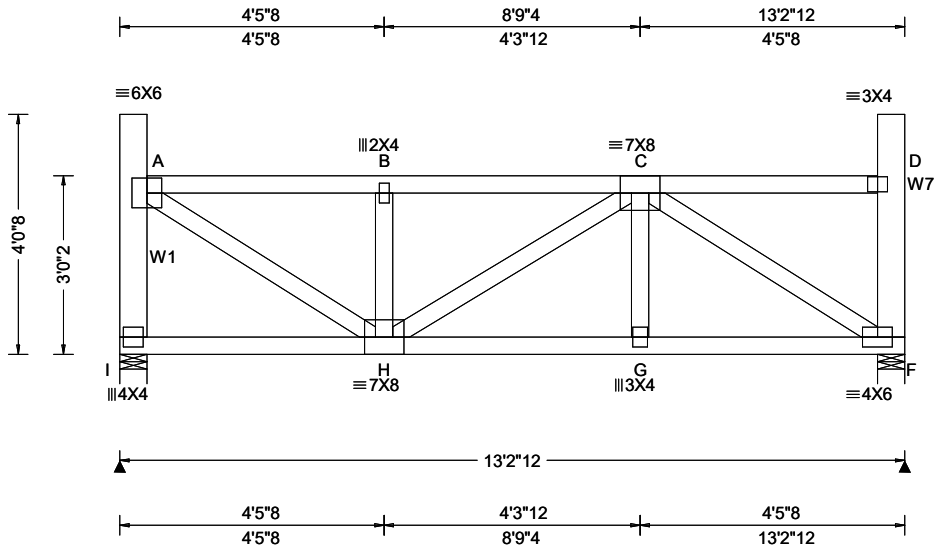
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34092 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T09A	Cust: R 9316 JRef: 1Xf293160008 T19 DrwNo: 117.22.1506.14687 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.037 G	999	360
VERT(CL):	0.063 G	999	240
HORZ(LL):	0.013 F	-	-
HORZ(TL):	0.022 F	-	-

Creep Factor: 2.0
Max TC CSI: 0.276
Max BC CSI: 0.790
Max Web CSI: 0.693

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	1196	/-	/-	/-	/164	/-
F	1119	/-	/-	/-	/139	/-

Wind reactions based on MWFRS
I Brg Wid = 5.5 Min Req = 1.9 (Truss)
F Brg Wid = 5.5 Min Req = 1.8 (Truss)
Bearings I & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	195	- 1470	B - C	195	- 1465

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	1453	- 182	G - F	1453	- 182

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - A	120	- 979	C - G	531	- 86
A - H	1590	- 209	C - F	206	- 1654

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 25 plf at 0.00 to 25 plf at 13.23
BC: 188 lb Conc. Load at 1.17, 3.17, 5.17,11.17
BC: 186 lb Conc. Load at 7.17, 9.17

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

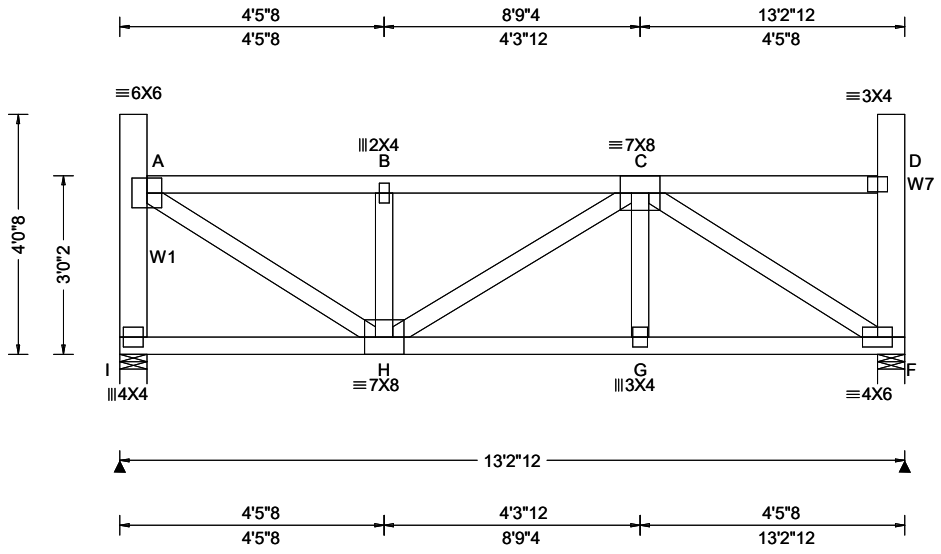
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34093 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T09B	Cust: R 9316 JRef: 1Xf293160008 T13 DrwNo: 117.22.1506.22637 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.037 G	999	360
VERT(CL):	0.063 G	999	240
HORZ(LL):	0.013 F	-	-
HORZ(TL):	0.022 F	-	-

Creep Factor: 2.0
Max TC CSI: 0.276
Max BC CSI: 0.790
Max Web CSI: 0.693

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
I	1196 /-	/-	/-	/164	/-
F	1119 /-	/-	/-	/139	/-

Wind reactions based on MWFRS
I Brg Wid = 5.5 Min Req = 1.9 (Truss)
F Brg Wid = 5.5 Min Req = 1.8 (Truss)
Bearings I & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	195	-1470	B - C	195	-1465

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	1453	-182	G - F	1453	-182

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - A	120	-979	C - G	531	-86
A - H	1590	-209	C - F	206	-1654

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 25 plf at 0.00 to 25 plf at 13.23
BC: 188 lb Conc. Load at 1.17, 3.17, 5.17,11.17
BC: 186 lb Conc. Load at 7.17, 9.17

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

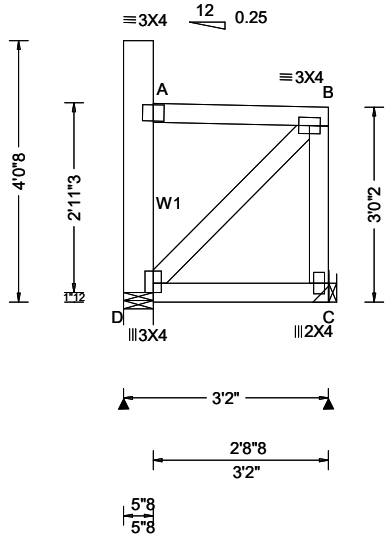
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34058 MONO FROM:	Ply: 1 Qty: 9	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48A	Cust: R 9316 JRef: 1Xf293160008 T17 DrwNo: 117.22.1514.26283 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.04 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 B	999	360
VERT(CL):	0.000 B	999	240
HORZ(LL):	0.001 A	-	-
HORZ(TL):	0.001 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.139
Max BC CSI: 0.109
Max Web CSI: 0.028

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	139	/-	/-	/81	/42	/34
C	186	/-	/-	/113	/32	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

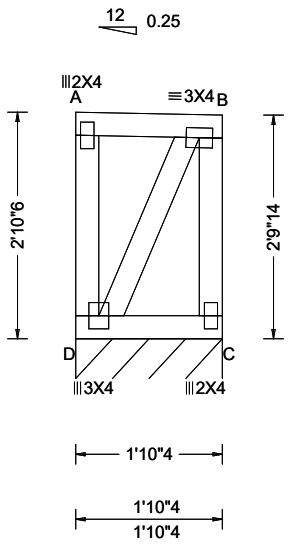
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34088 MONO FROM: JRQ	Ply: 1 Qty: 1	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE26	Cust: R 9316 JRef: 1Xf293160008 T16 DrwNo: 117.22.1516.29533 / NDW 04/27/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.99 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.052 Max BC CSI: 0.037 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/27

Wind reactions based on MWFRS
C Brg Wid = 22.3 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

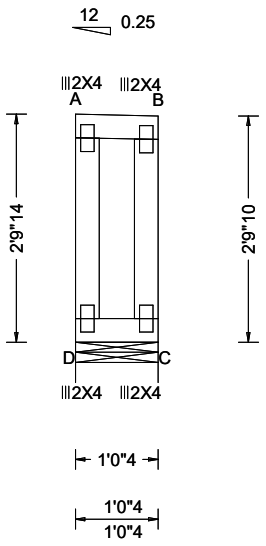
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34089 MONO FROM: JRQ	Ply: 1 Qty: 1	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE27	Cust: R 9316 JRef: 1Xf293160008 T23 DrwNo: 117.22.1516.36093 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.96 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.069 A	-	-
HORZ(TL):	0.077 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.047
Max BC CSI: 0.051
Max Web CSI: 0.077

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C	123	/-	/-	/52	/6	/49

Wind reactions based on MWFRS
C Brg Wid = 12.2 Min Req = 1.5 (Truss)
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing
Fasten rated sheathing to one face of this frame.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

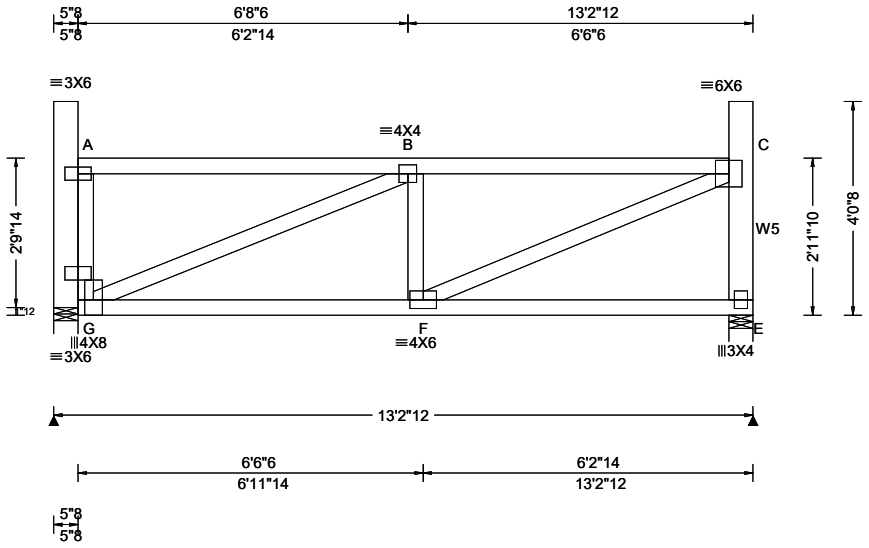
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34023 MONO FROM: JRQ	Ply: 1 Qty: 1	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T08	Cust: R 9316 JRef: 1Xf293160008 T8 DrwNo: 117.22.1505.56650 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.97 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.036	B	999	360
VERT(CL): 0.062	B	999	240
HORZ(LL): 0.007	E	-	-
HORZ(TL): 0.012	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.709
Max BC CSI: 0.759
Max Web CSI: 0.928

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	759	/-	/-	/332	/48	/78
E	741	/-	/-	/318	/45	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Support)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	98	-1104

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	1105	-106

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	592	-22	F - C	1104	-99
G - A	48	-760	C - E	60	-612
G - B	94	-1171			

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W5 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Blocking
Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11964.55" if used)

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

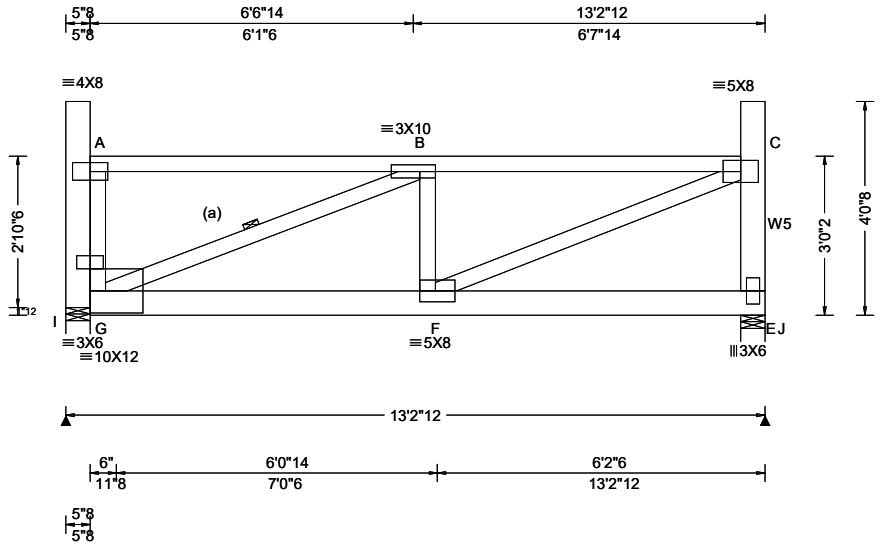
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34117 MONO FROM: JRQ	Ply: 1 Qty: 1	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T09	Cust: R 9316 JRef: 1Xf293160008 T4 DrwNo: 117.22.1506.05530 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.059	F	999	360
VERT(CL): 0.102	F	999	240
HORZ(LL): 0.008	A	-	-
HORZ(TL): 0.014	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.783
Max BC CSI: 0.623
Max Web CSI: 0.493

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	1372	/-	/-	/-	/145	/-
J	1246	/-	/-	/-	/135	/-

Wind reactions based on MWFRS
I Brg Wid = 5.5 Min Req = 1.5 (Support)
J Brg Wid = 5.5 Min Req = 2.0 (Truss)
Bearings I & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	212	-1977

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	1938	-204

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	1202	-137	F - C	2011	-216
G - A	145	-1373	C - E	94	-973
G - B	216	-2045			

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W5 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 12.31
BC: From 50 plf at 0.00 to 50 plf at 12.77
BC: 186 lb Conc. Load at 0.71, 2.71, 4.71, 6.71 8.71
BC: 188 lb Conc. Load at 10.71

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Blocking
Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11970.55" if used)

Additional Notes
Truss must be installed as shown with top chord up.

04/27/2022

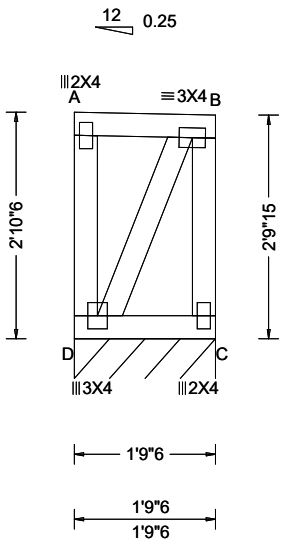
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34086 MONO FROM: JRQ	Ply: 1 Qty: 1	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE24	Cust: R 9316 JRef: 1Xf293160008 T24 DrwNo: 117.22.1516.24317 / NDW 04/27/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.99 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	-0.001 A	-	-
HORZ(TL):	0.001 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.048
Max BC CSI: 0.034
Max Web CSI: 0.041

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 21.4 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

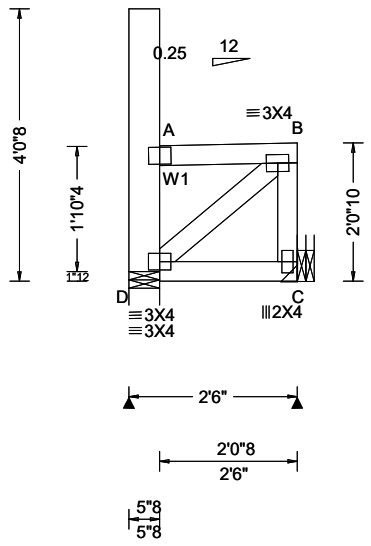
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34014 MONO FROM: JRQ	Ply: 1 Qty: 25	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02A	Cust: R 9316 JRef: 1Xf293160008 T15 DrwNo: 117.22.1504.12163 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 B	999	360
VERT(CL):	0.000 B	999	240
HORZ(LL):	0.001 A	-	-
HORZ(TL):	0.001 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.102
Max BC CSI: 0.066
Max Web CSI: 0.106

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	113	/-	/-	/89	/75	/61
C	158	/-	/-	/132	/55	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

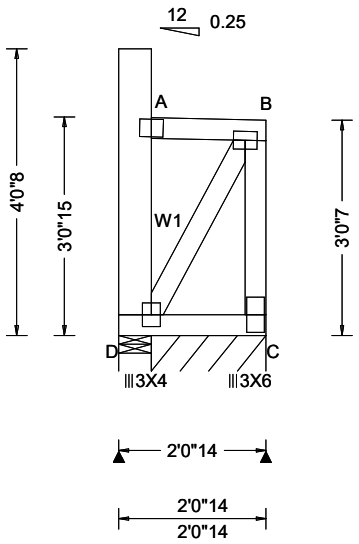
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34087 GABL FROM: JRQ	Ply: 1 Qty: 1	**Job Number:** JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE25	Cust: R 9316 JRef: 1Xf293160008 T14 DrwNo: 117.22.1516.27373 / NDW 04/27/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.001	D	999	360
VERT(CL): -0.001	D	999	240
HORZ(LL): 0.003	A	-	-
HORZ(TL): 0.003	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.048
Max Web CSI: 0.059

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	108	/-	/-	/124	/102	/89
C*	67	/-	/-	/92	/54	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = 19.4 Min Req = -
Bearings D & D are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Gable Stud Reinforcement Detail

ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
				Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" o.c.	SPF HF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"
16" o.c.	SPF HF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard

Douglas Fir-Larch	Southern Pine***
#3	#3
Stud	Stud
Standard	Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch	Southern Pine***
#1	#1
#2	#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

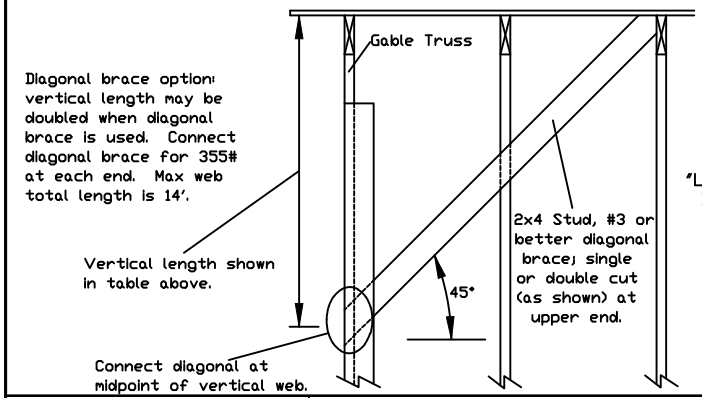
Attach 'L' braces with 10d (0.128"x3.0" min) nails.

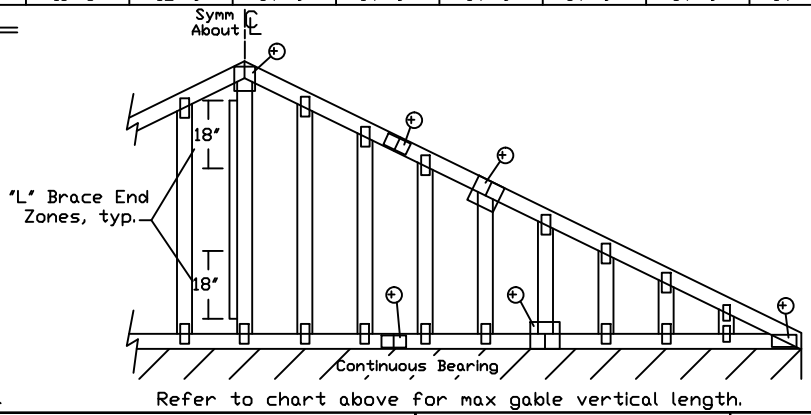
* For (1) 'L' brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) 'L' braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

'L' bracing must be a minimum of 80% of web member length.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 355# at each end. Max web total length is 14'.





Refer to chart above for max gable vertical length.

Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

ALPINE® ITW COMPANY

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-16-GAB11530
DATE	01/26/2018
DRWG	A11530ENC160118

Building 5

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C
Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail for lumber, plates, and other information not shown on this detail.

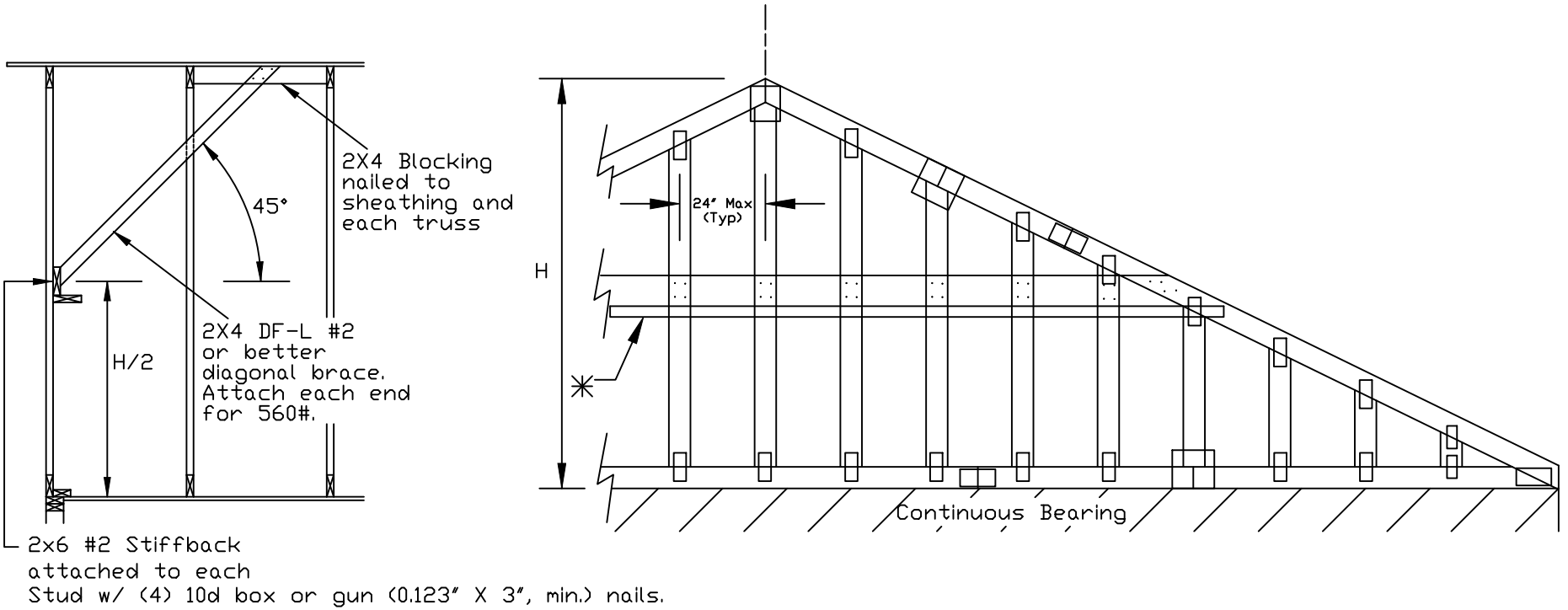
Nails: 10d box or gun (0.128"x3",min) nails.

H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback to roof diaphragm every 6'0" (see detail below or refer to DRWG A12030ENC160118).

H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace to roof diaphragm every 4'0" (see detail below or refer to DRWG A12030ENC160118).

✳ Optional 2x L-reinforcement attached to stiffback with 10d box or gun (0.128" x 3", min.) nails @ 6" o.c.



****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

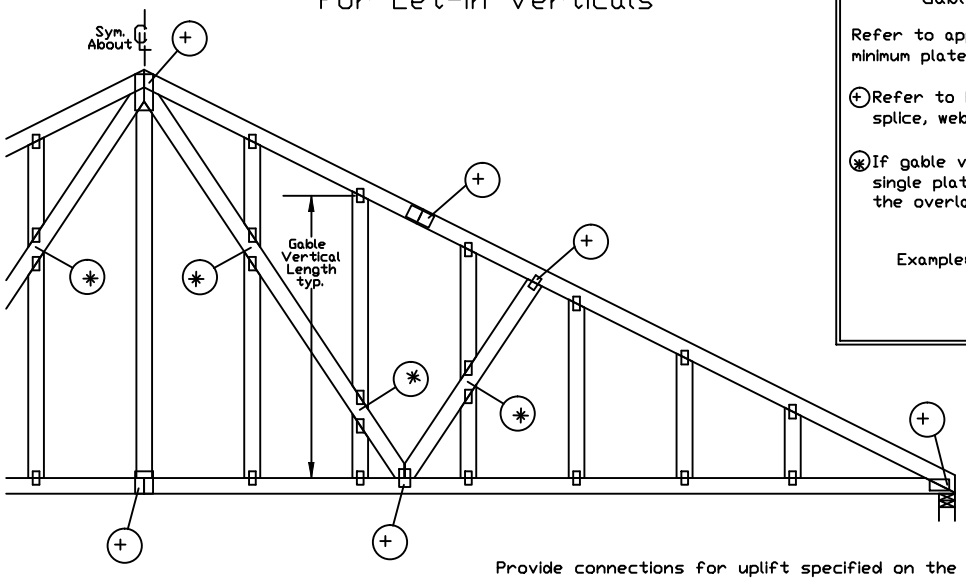
ALPINE® ITW COMPANY

MAX. TOT. LD. 60 PSF

MAX. SPACING

REF	GE WHALER
DATE	01/02/2018
DRWG	GABRST160118

Gable Detail
For Let-in Verticals



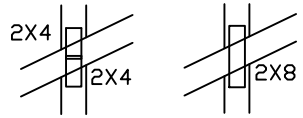
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

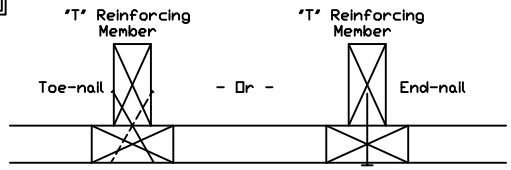
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊛ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



"T" Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:
10d Common (0.148"x 3",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

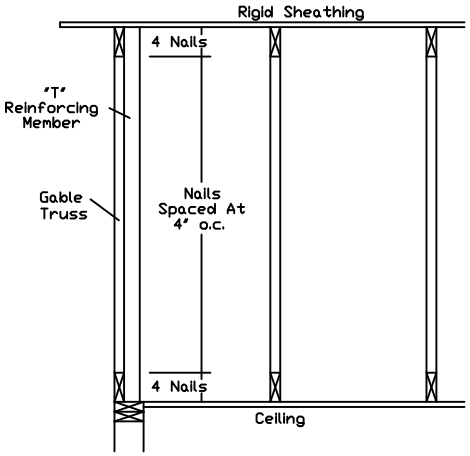
Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24"o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

MAX. TOT. LD. 60 PSF
DUR. FAC. ANY
MAX. SPACING 24.0"

REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforecement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

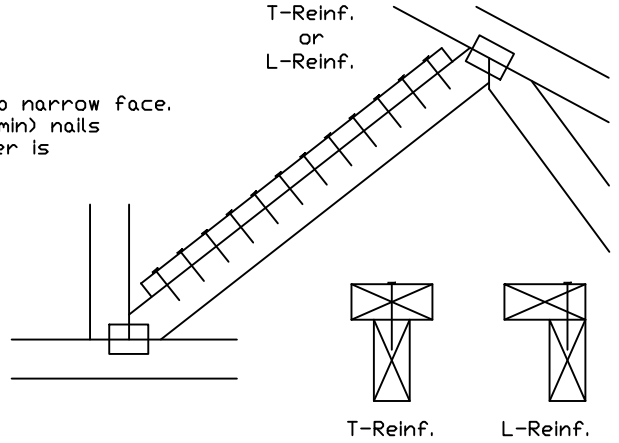
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

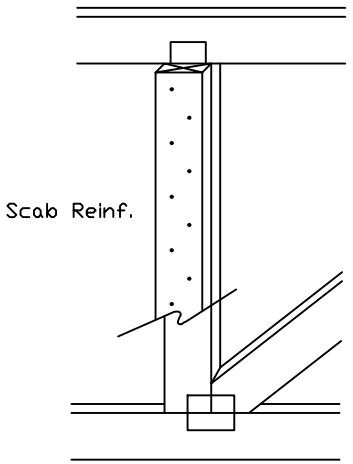
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



ALPINE® ITW COMPANY

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL	PSF	
TC DL	PSF	
BC DL	PSF	
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

REF	CLR Subst.
DATE	01/02/19
DRWG	BRCLBSUB0119

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

Building 6

B D C

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 10, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Floor Layout Shop Drawings	RETURNED NOT REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:
- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

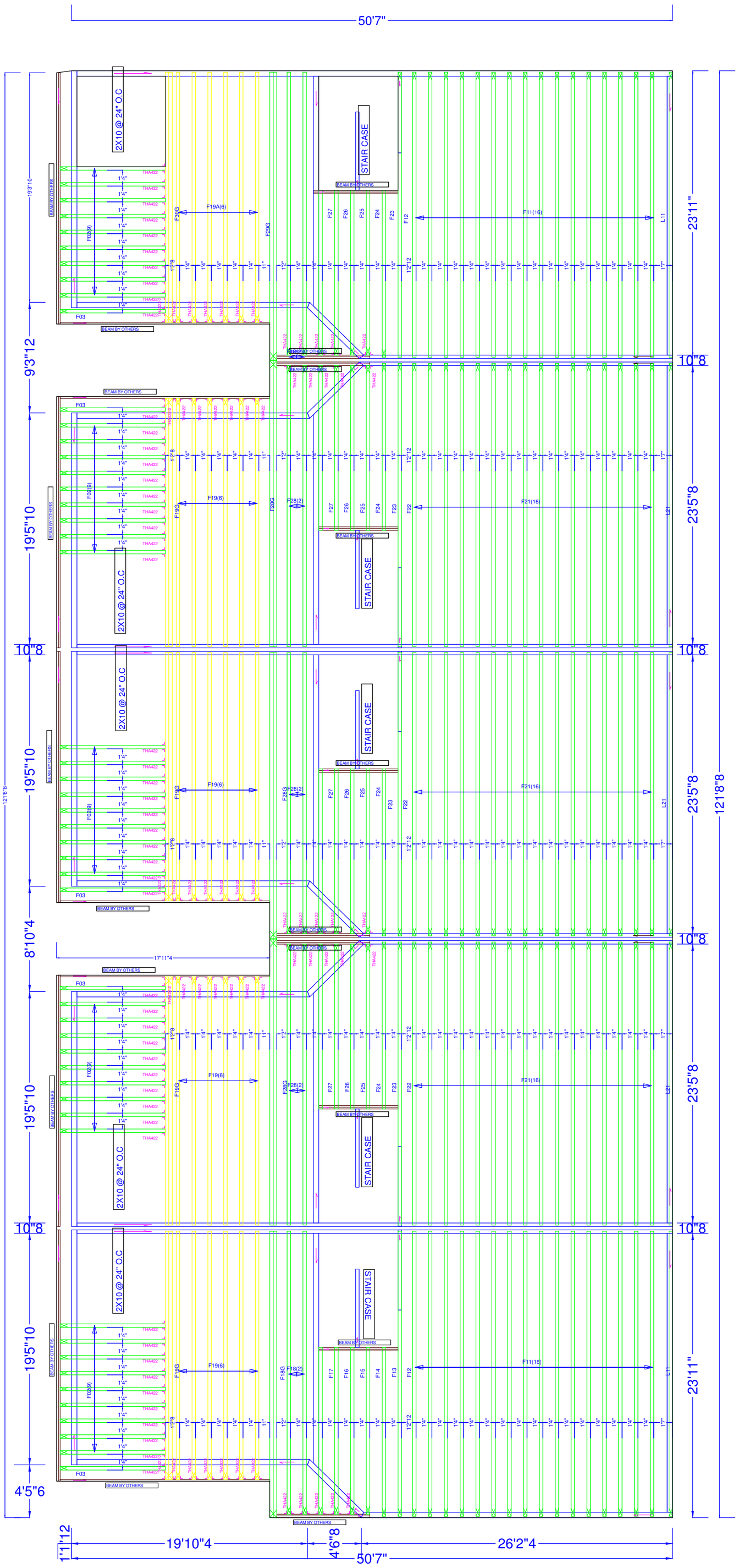
Group 6 Floor Layout

Total Truss Quantity = 225.

Total Plan Area with OHs = 5429 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
=	THA422	159	Simpson
=	THA422-2	5	Simpson



SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/10/2022 BY: CB

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 5/23/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRi ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

mill Creek
3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-6108

Job Name: McCambridge Brothers Construction

Designer: Juan R Quiroz

Reference #: JB-220579F

Date: 3/17/2022

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address:
2100 NW Lowenstein Dr
Lee's Summit
MO

Building 6

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

04/28/2022

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 5/23/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRi ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED. REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/10/2022 *BY:* CB

Site Information:	**Page 1:**
Customer: Mill Creek Truss	*Job Number:* JB-220579F
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1Xf393160009
Wind Standard: ASCE716 *Wind Speed (mph):* 0 *Building Type:*	*Design Loading (psf):* 75.00

This package contains general notes pages, 27 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	118.22.1357.05696	F02
3	118.22.1357.06405	F11
5	118.22.1357.06142	F13
7	118.22.1357.06059	F15
9	118.22.1357.06401	F17
11	118.22.1357.06427	F18G
13	118.22.1357.06699	F19A
15	118.22.1357.05599	F21
17	118.22.1357.06074	F23
19	118.22.1357.06250	F25
21	118.22.1357.05749	F27
23	118.22.1357.05685	F28G
25	118.22.1357.06763	F30G
27	118.22.1357.06275	L21
29	DEFLCAMB1014	
31	STRBRIBR1014	

Item	Drawing Number	Truss
2	118.22.1357.06079	F03
4	118.22.1357.06724	F12
6	118.22.1357.06020	F14
8	118.22.1357.06406	F16
10	118.22.1357.05817	F18
12	118.22.1357.06588	F19
14	118.22.1357.06683	F19G
16	118.22.1357.06473	F22
18	118.22.1357.05750	F24
20	118.22.1357.05851	F26
22	118.22.1357.05850	F28
24	118.22.1357.06839	F29G
26	118.22.1357.06151	L11
28	CNSY42PL0118	
30	LSCSYX2A1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

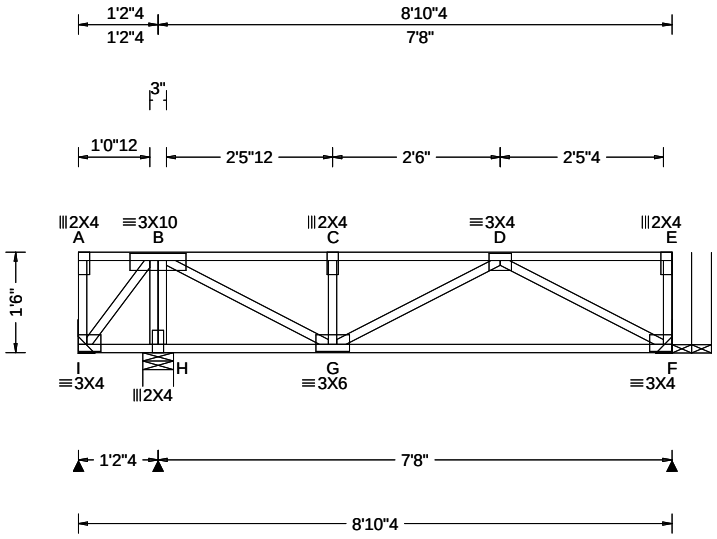
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 6

SEQN: 96773 / SY42 FROM:	Ply: 1 Qty: 45	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F02	Cust: R 9316 JRef:1Xf393160009 T6 DrwNo: 118.22.1357.05696 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.018	C	999	480
VERT(CL): 0.034	C	999	360
HORZ(LL): 0.002	F	-	-
HORZ(TL): 0.004	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.299
Max BC CSI: 0.301
Max Web CSI: 0.162

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	28	/-43	/-	/-	/-	/-
H	525	/-	/-	/-	/-	/-
F	372	/-	/-	/-	/-	/-

I Brg Wid = - Min Req = -
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
F Brg Wid = - Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-485	C - D	0	-485

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	473	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - H	0	-499	D - F	0	-537
B - G	576	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

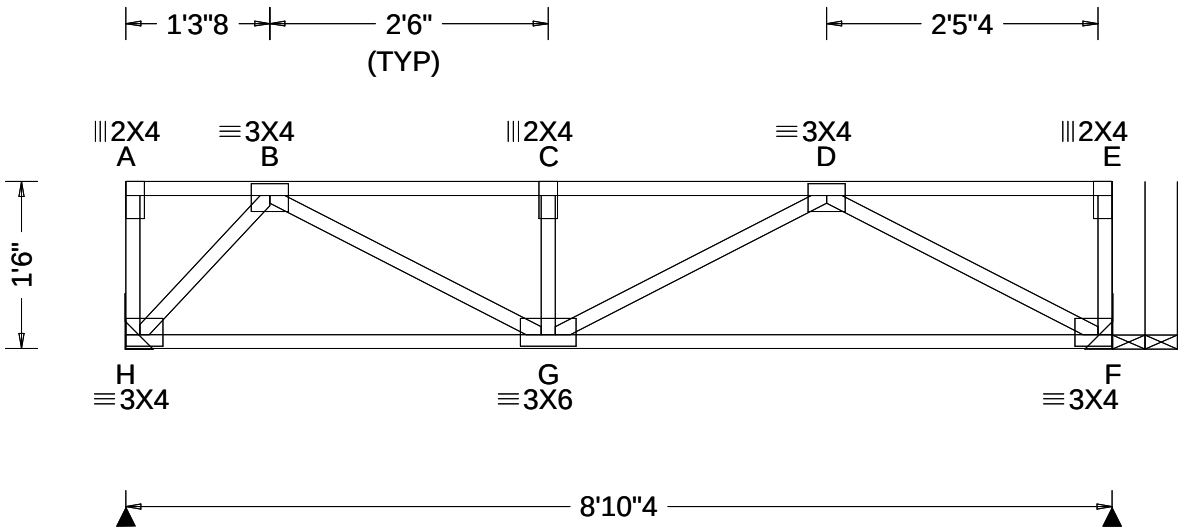
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96775 / SY42 FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F03	Cust: R 9316 JRef:1Xf393160009 T7 / DrwNo: 118.22.1357.06079 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.024	C	999	480
VERT(CL): 0.046	C	999	360
HORZ(LL): 0.004	B	-	-
HORZ(TL): 0.008	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.298
Max BC CSI: 0.324
Max Web CSI: 0.141

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	443	/-	/-	/-	/-	/-
F	443	/-	/-	/-	/-	/-

H Brg Wid = - Min Req = -
F Brg Wid = - Min Req = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-747	C - D	0	-747

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	606	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - B	0	-546	D - F	0	-687
B - G	426	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

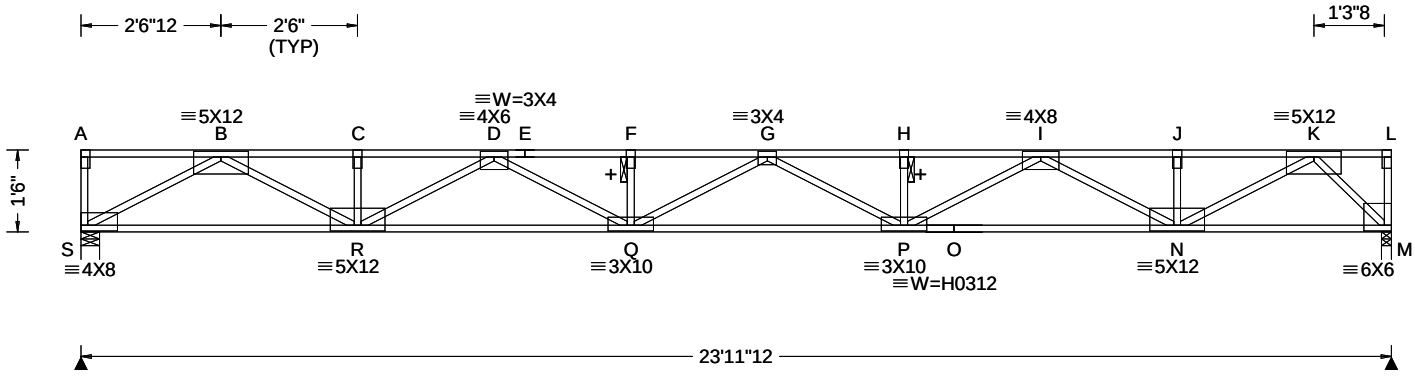
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96777 / SY42 FROM:	Ply: 1 Qty: 32	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F11	Cust: R 9316 JRef:1Xf393160009 T28 / DrwNo: 118.22.1357.06405 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.414	G	695	480
VERT(CL): 0.775	G	371	360
HORZ(LL): 0.057	M	-	-
HORZ(TL): 0.107	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.398
Max BC CSI: 0.672
Max Web CSI: 0.551

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
S	1199	/-	/-	/-	/-	/-
M	1199	/-	/-	/-	/-	/-

S Brg Wid = 4.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3522	G - H	0	-4917
C - D	0	-3522	H - I	0	-4917
D - E	0	-5123	I - J	0	-2895
E - F	0	-5123	J - K	0	-2895
F - G	0	-5123			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	2010	0	P - O	4106	0
R - Q	4523	0	O - N	4106	0
Q - P	5219	0	N - M	1183	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2281	P - I	925	0
B - R	1725	0	I - N	0	-1382
R - D	0	-1143	N - K	1954	0
D - Q	684	0	K - M	0	-1648

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

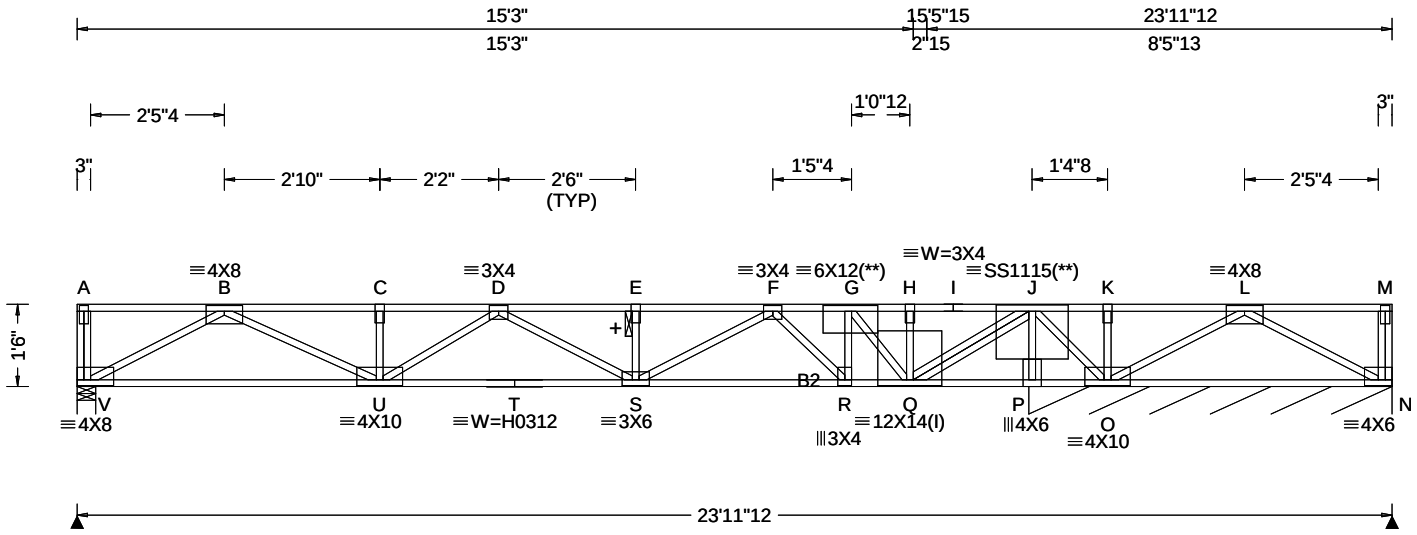
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96779 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F12	Cust: R 9316 JRef:1Xf393160009 T1 / DrwNo: 118.22.1357.06724 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.201	E	999	480
VERT(CL): 0.377	E	545	360
HORZ(LL): 0.029	B	-	-
HORZ(TL): 0.054	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.946
Max BC CSI: 0.960
Max Web CSI: 0.568

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	443	/-	/-	/-	/-	/-
N		/-304				

V Brg Wid = 4.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2615	G - H	0	-818
C - D	0	-2615	H - I	0	-818
D - E	0	-3202	I - J	0	-818
E - F	0	-3202	J - K	2031	0
F - G	0	-2426	K - L	2031	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1461	0	R - Q	2382	0
U - T	3059	0	Q - P	0	-2607
T - S	3059	0	P - O	0	-2607
S - R	2851	0	O - N	0	-784

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1680	G - Q	0	-2558
B - U	1283	0	Q - J	4025	0
U - D	0	-526	J - P	0	-2889
S - F	401	0	J - O	816	0
F - R	0	-615	O - L	0	-1423
R - G	488	0	L - N	897	0

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.98
BC: From 13 plf at 0.00 to 13 plf at 23.98
TC: 1500 lb Conc. Load at 14.06

Plating Notes
All plates are 2X4 except as noted.
(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

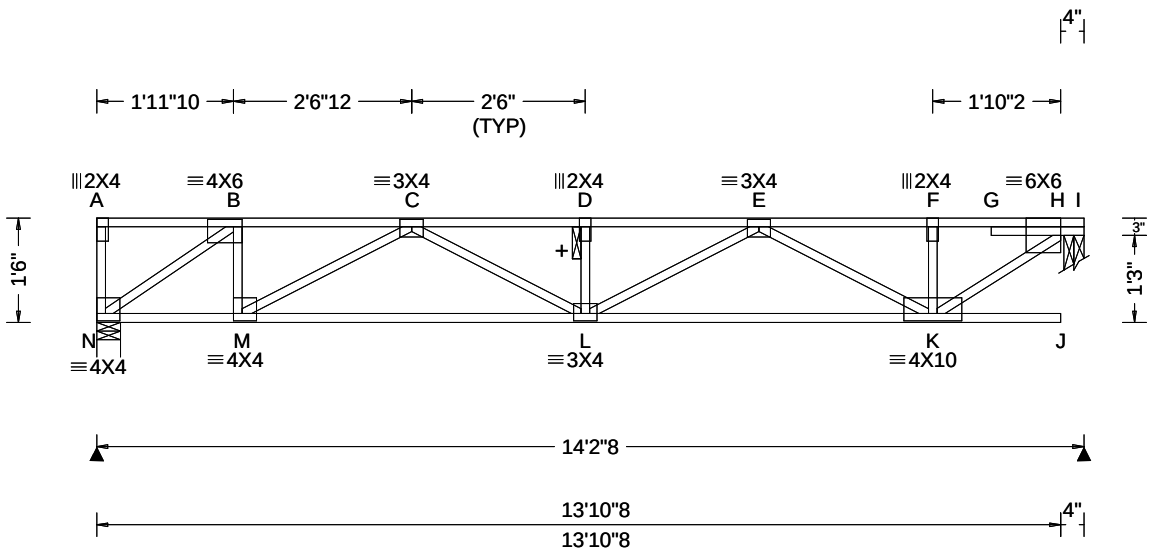
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96781 / SY42 FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F13	Cust: R 9316 JRef:1Xf393160009 T23 / DrwNo: 118.22.1357.06142 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.096	D	999	480
VERT(CL): 0.179	D	942	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.030	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.620
Max BC CSI: 0.537
Max Web CSI: 0.329

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	702	/-	/-	/-	/-	/-
H	714	/-	/-	/-	/-	/-

N Brg Wid = 4.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-943	E - F	0	-943
C - D	0	-1836	F - H	0	-942
D - E	0	-1836			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	905	0	L - K	1574	0
M - L	1582	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1104	E - K	0	-721
B - M	416	0	K - H	1166	0
M - C	0	-734			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

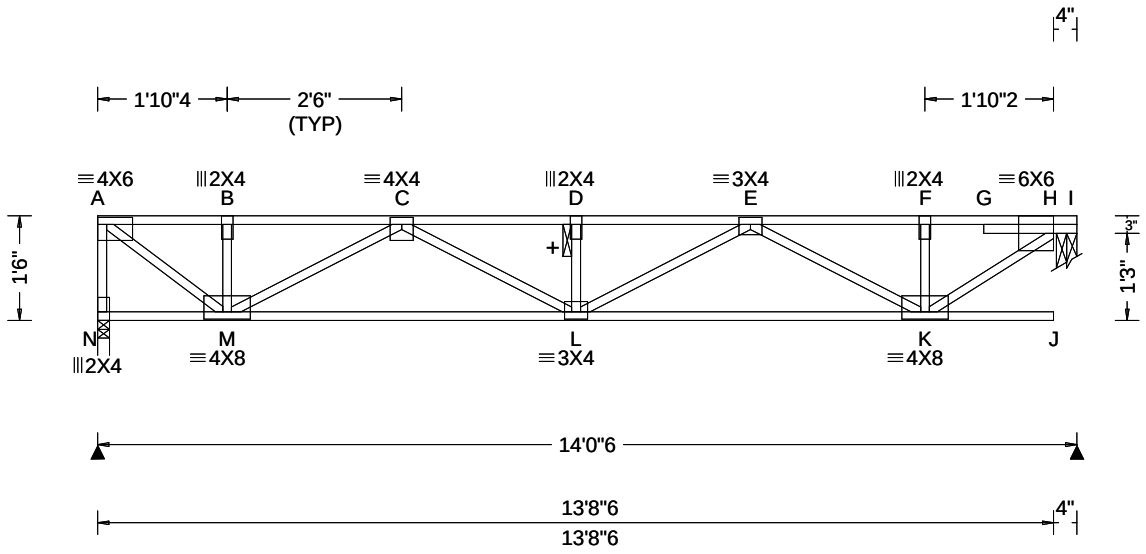
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96783 / SY42 FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F14	Cust: R 9316 JRef:1Xf393160009 T15 / DrwNo: 118.22.1357.06020 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.093	D	999	480
VERT(CL): 0.174	D	955	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.612
Max BC CSI: 0.524
Max Web CSI: 0.324

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	693	/-	/-		/-	/-	/-
H	706	/-	/-		/-	/-	/-

N Brg Wid = 2.0 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-849	D - E	0	-1791
B - C	0	-849	E - F	0	-929
C - D	0	-1791	F - H	0	-929

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1520	0	L - K	1546	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-690	E - K	0	-703
A - M	1057	0	K - H	1150	0
M - C	0	-766			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

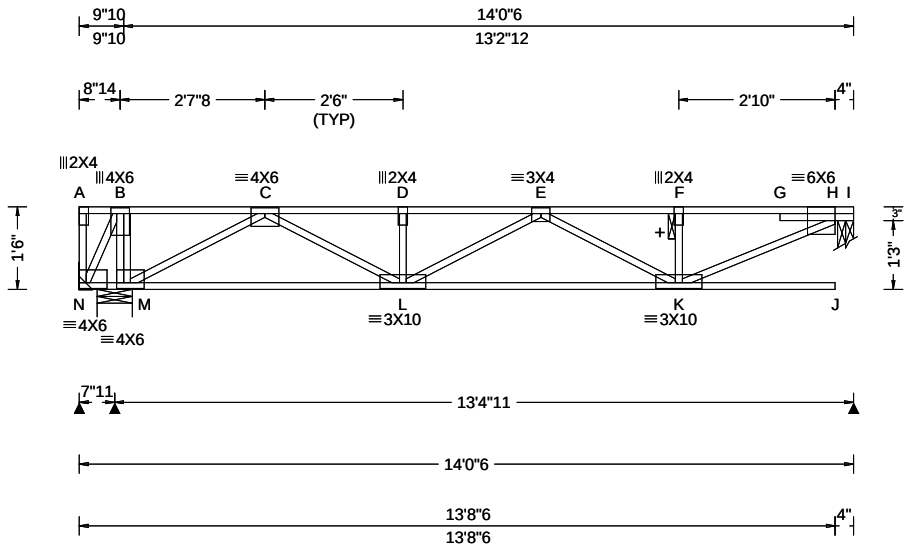
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96787 / SY42 FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F15	Cust: R 9316 JRef:1Xf393160009 T26 / DrwNo: 118.22.1357.06059 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.200	J	780	480
VERT(CL): 0.320	J	487	360
HORZ(LL): 0.011	C	-	-
HORZ(TL): 0.020	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.961
Max BC CSI: 0.588
Max Web CSI: 0.339

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-708	/-	/-	/-	/-
N	1480	/-	/-	/-	/-	/-
H	618	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
N Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	400	0	E - F	0	-1087
C - D	0	-1207	F - H	0	-1088
D - E	0	-1207			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	600	0	L - K	1318	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	685	0	C - L	693	0
B - M	0	-840	K - H	1201	0
M - C	0	-1141			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -708# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

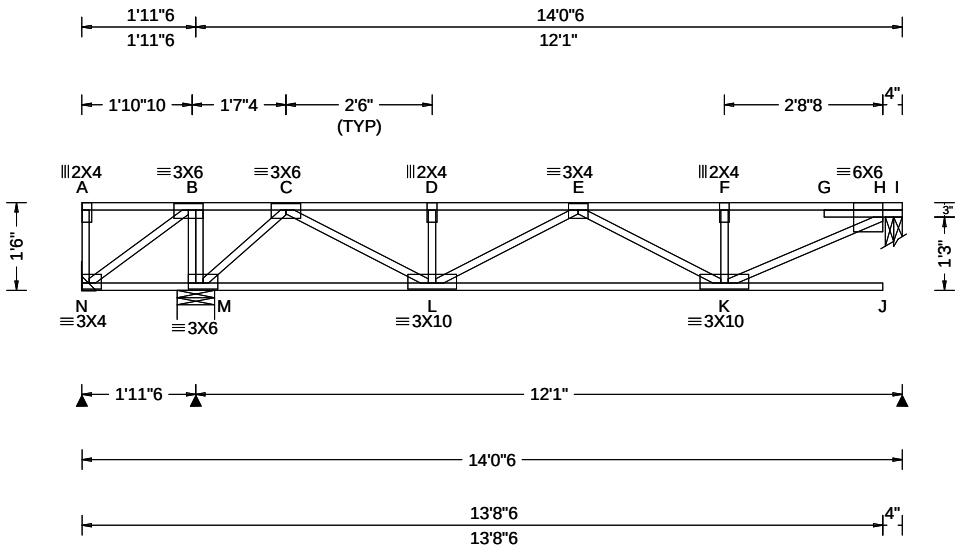
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96789 / SY42 FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F16	Cust: R 9316 JRef:1Xf393160009 T33 / DrwNo: 118.22.1357.06406 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.159	J	897	480
VERT(CL): 0.249	J	570	360
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.283

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-323	/-	/-	/-	/-
M	1131	/-	/-	/-	/-	/-
I	547	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	511	0	E - F	0	-901
C - D	0	-818	F - H	0	-903
D - E	0	-818			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-469	L - K	1034	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	580	0	C - L	816	0
B - M	0	-512	K - H	1004	0
M - C	0	-842			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

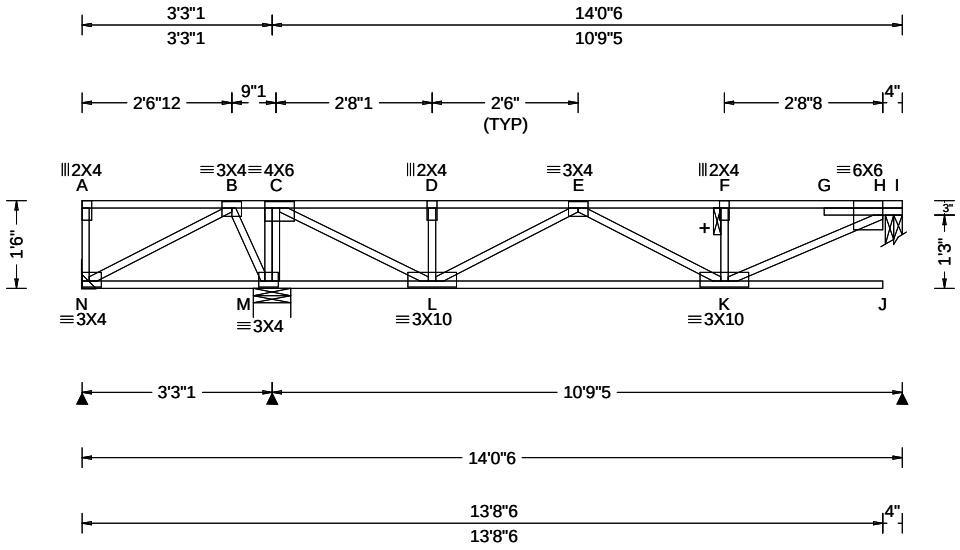
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96791 / SY42 FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F17	Cust: R 9316 JRef:1Xf393160009 T20 / DrwNo: 118.22.1357.06401 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	870	480
VERT(CL): 0.233	J	550	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.749
Max BC CSI: 0.437
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
N	57 /-122	/-	/-	/-	/-	
M	959 /-	/-	/-	/-	/-	
I	491 /-	/-	/-	/-	/-	

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	423	0	E - F	0	- 784
C - D	0	- 500	F - H	0	- 785
D - E	0	- 500			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	818	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	- 627	K - H	874	0
C - L	963	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

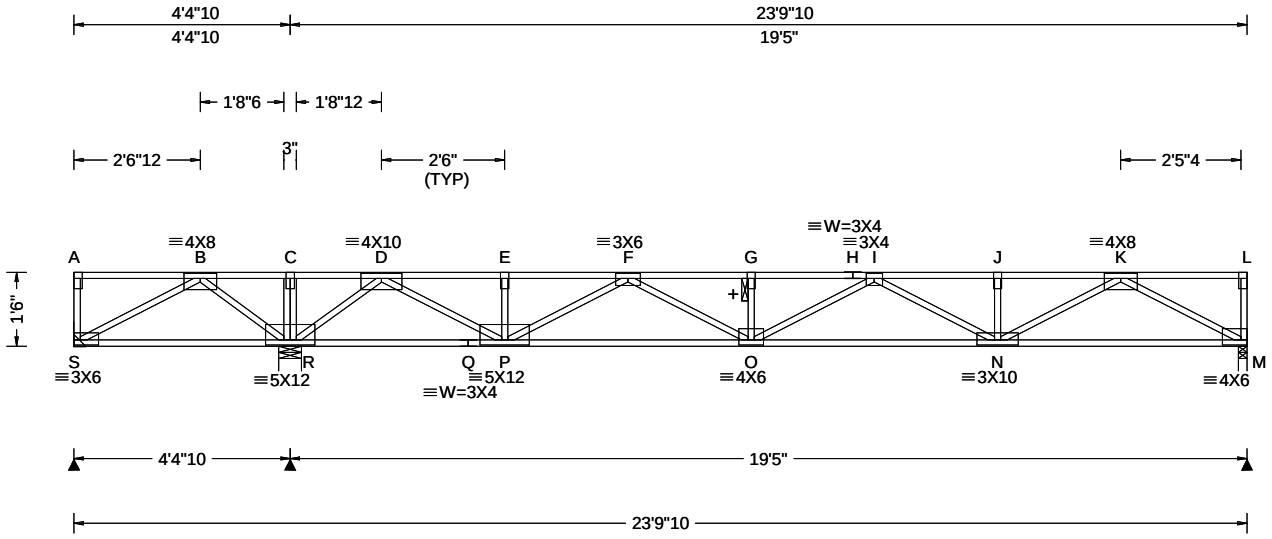
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96793 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18	Cust: R 9316 JRef:1Xf393160009 T16 / DrwNo: 118.22.1357.05817 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	G	999	480
VERT(CL): 0.371	G	628	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.796
Max Web CSI: 0.466

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	-	/-458	/-	/-	/-	/-
R	1886	/-	/-	/-	/-	/-
M	844	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1750	0	G - H	0	- 2537
C - D	1750	0	H - I	0	- 2537
D - E	0	- 1040	I - J	0	- 2220
E - F	0	- 1040	J - K	0	- 2220
F - G	0	- 2537			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	- 955	P - O	1987	0
R - Q	0	- 427	O - N	2580	0
Q - P	0	- 427	N - M	1352	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1084	0	F - O	631	0
B - R	0	- 1117	I - N	0	- 411
R - D	0	- 1648	N - K	991	0
D - P	1653	0	K - M	0	- 1535
P - F	0	- 1085			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -458# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

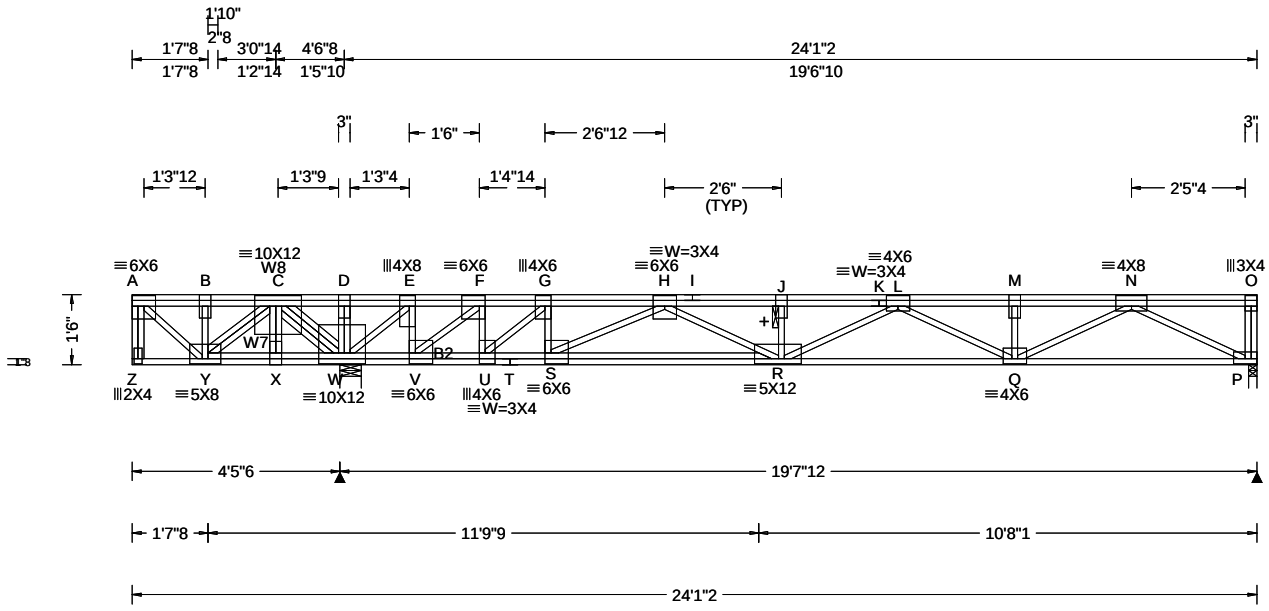
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96795 / SY42 FROM:	Ply: 2 Qty: 1	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18G	Cust: R 9316 JRef:1Xf393160009 T17 / DrwNo: 118.22.1357.06427 / NDW 04/28/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.124 Z	435	480
VERT(CL):	0.263 Z	408	360
HORZ(LL):	-0.027 A	-	-
HORZ(TL):	0.058 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.885
Max BC CSI: 0.247
Max Web CSI: 0.249

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
W	8317	/-	/-	/-	/-	/-
P	962	/-165	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	420	0	H - I	1554	-1705
B - C	420	0	I - J	1554	-1705
C - D	4753	0	J - K	1551	-1711
D - E	4749	0	K - L	1551	-1711
E - F	4209	-367	L - M	534	-1347
F - G	3615	-827	M - N	534	-1347
G - H	3087	-1193			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	-1228	T - S	1169	-3130
X - W	0	-1219	S - R	1563	-2265
W - V	329	-4254	R - Q	1631	-993
V - U	793	-3663	Q - P	784	-222
U - T	1169	-3130			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	-548	G - S	539	0
Y - C	1053	0	S - H	0	-1139
C - W	0	-4787	H - R	869	0
W - E	0	-999	R - L	89	-626
E - V	636	0	L - Q	518	-321
V - F	0	-1035	Q - N	636	-353
F - U	652	0	N - P	250	-860
U - G	0	-919			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7,W8 4x2 DF-L 2400f-2.0E;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes

All plates are 3X6 except as noted.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

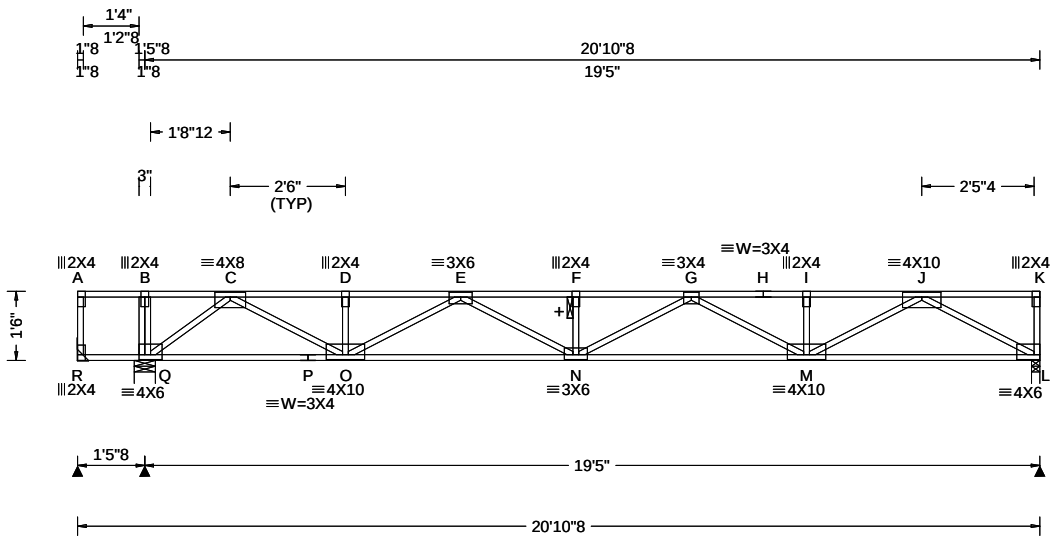
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 9787 / SY42 FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19	Cust: R 9316 JRef:1Xf393160009 T34 / DrwNo: 118.22.1357.06588 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.246	F	943	480
VERT(CL): 0.462	F	502	360
HORZ(LL): 0.038	L	-	-
HORZ(TL): 0.072	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.485
Max BC CSI: 0.960
Max Web CSI: 0.397

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
R	27	/-42	/-	/-	/-	/-
Q	1134	/-	/-	/-	/-	/-
L	962	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-2320	G - H	0	-2651
D - E	0	-2320	H - I	0	-2651
E - F	0	-3393	I - J	0	-2651
F - G	0	-3393			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1089	0	N - M	3224	0
P - O	1089	0	M - L	1570	0
O - N	3055	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - C	0	-1383	G - M	0	-654
C - O	1407	0	M - J	1233	0
O - E	0	-839	J - L	0	-1782
E - N	387	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

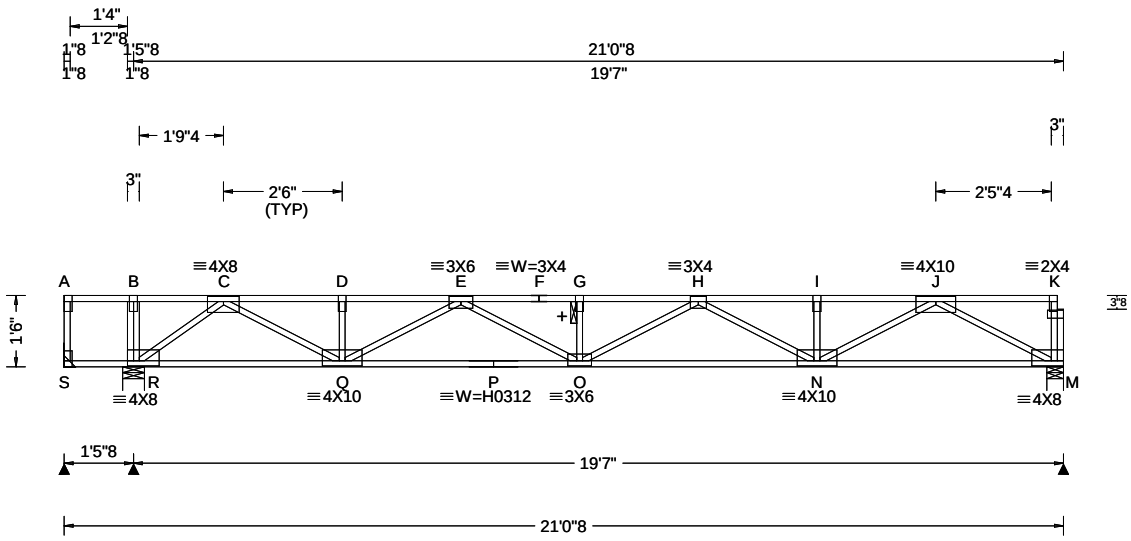
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 9789 / SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19A	Cust: R 9316 JRef:1Xf393160009 T21 / DrwNo: 118.22.1357.06699 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.245	G	948	480
VERT(CL): 0.459	G	505	360
HORZ(LL): 0.038	M	-	-
HORZ(TL): 0.072	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.484
Max BC CSI: 0.955
Max Web CSI: 0.394

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	27	/-42	/-	/-	/-	/-
R	1133	/-	/-	/-	/-	/-
M	979	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 4.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	- 2332	G - H	0	- 3387
D - E	0	- 2332	H - I	0	- 2625
E - F	0	- 3387	I - J	0	- 2625
F - G	0	- 3387			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	1110	0	O - N	3207	0
Q - P	3058	0	N - M	1535	0
P - O	3058	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
R - C	0	- 1398	H - N	0	- 664
C - Q	1397	0	N - J	1245	0
Q - E	0	- 829	J - M	0	- 1753
E - O	376	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.24" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

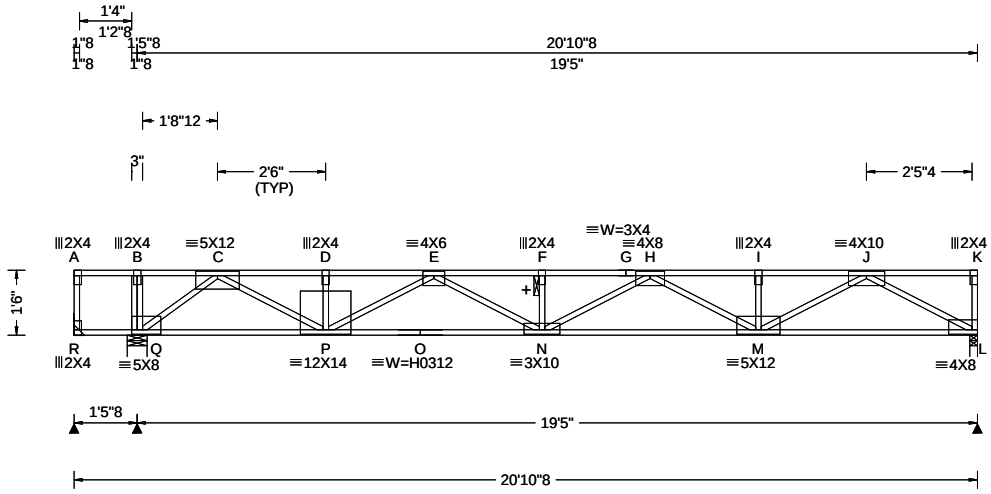
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 9791 / SY42 FROM:	Ply: 2 Qty: 4	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19G	Cust: R 9316 JRef:1Xf393160009 T8 / DrwNo: 118.22.1357.06683 / NDW 04/28/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.290	F	799	480
VERT(CL): 0.545	F	426	360
HORZ(LL): 0.041	C	-	-
HORZ(TL): 0.076	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.583
Max BC CSI: 0.585
Max Web CSI: 0.629

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	24	/-58	/-	/-	/-	/-
Q	3942	/-	/-	/-	/-	/-
L	1997	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-3789	G - H	0	-5138
D - E	0	-3789	H - I	0	-3219
E - F	0	-5138	I - J	0	-3219
F - G	0	-5138			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1835	0	N - M	4478	0
P - O	4877	0	M - L	1748	0
O - N	4877	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - Q	0	-465	F - N	0	-473
Q - C	0	-2340	N - H	753	0
C - P	2229	0	H - M	0	-1437
D - P	0	-467	M - J	1679	0
P - E	0	-1242	J - L	0	-1984

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
Webs: 4x2 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 20.88
BC: From 13 plf at 0.00 to 13 plf at 20.88
TC: 443 lb Conc. Load at 0.94
TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27 7.60, 8.94,10.27,11.60,12.94

Deflection
Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

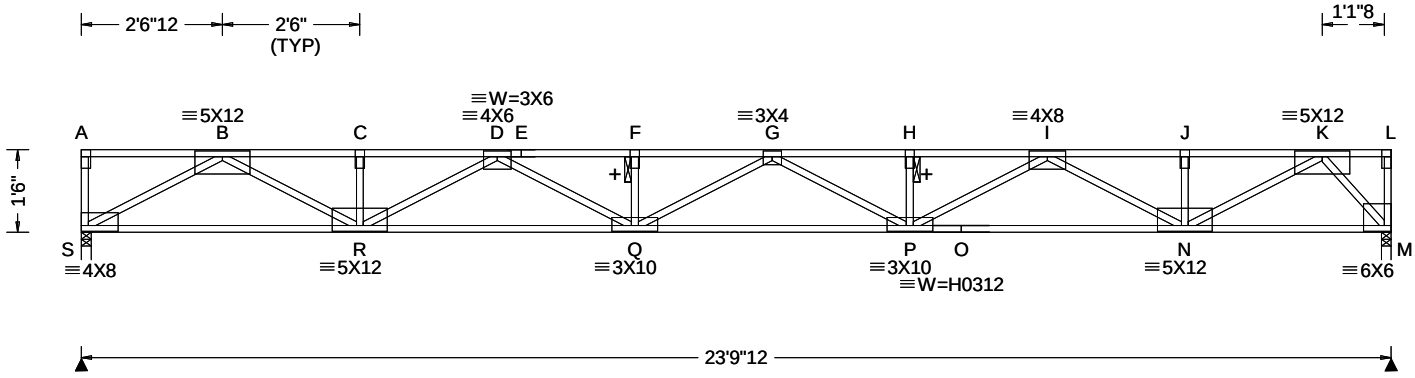
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96797 / SY42 FROM:	Ply: 1 Qty: 48	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F21	Cust: R 9316 JRef:1Xf393160009 T19 / DrwNo: 118.22.1357.05599 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.419	G	682	480
VERT(CL): 0.785	G	364	360
HORZ(LL): 0.056	M	-	-
HORZ(TL): 0.104	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.442
Max BC CSI: 0.664
Max Web CSI: 0.556

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
S	1191	/-	/-	/-	/-	/-
M	1191	/-	/-	/-	/-	/-

S Brg Wid = 2.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3491	G - H	0	-4826
C - D	0	-3491	H - I	0	-4826
D - E	0	-5062	I - J	0	-2773
E - F	0	-5062	J - K	0	-2773
F - G	0	-5062			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	1995	0	P - O	4000	0
R - Q	4479	0	O - N	4000	0
Q - P	5145	0	N - M	1047	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2264	P - I	942	0
B - R	1707	0	I - N	0	-1401
R - D	0	-1127	N - K	1969	0
D - Q	665	0	K - M	0	-1557

Lumber

Top chord: 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

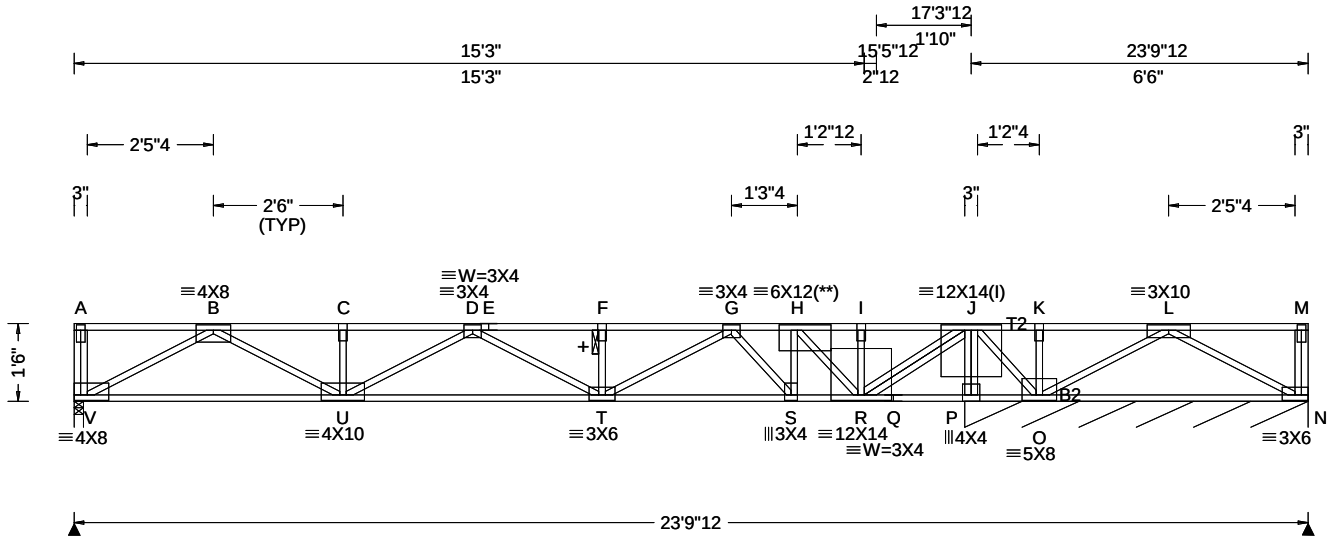
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96799 / SY42 FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F22	Cust: R 9316 JRef:1Xf393160009 T2 / DrwNo: 118.22.1357.06473 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.179 F	999	480
VERT(CL):	0.335 F	613	360
HORZ(LL):	0.026 B	-	-
HORZ(TL):	0.049 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.504
Max BC CSI: 0.472
Max Web CSI: 0.548

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	441	/-	/-	/-	/-	/-
N		/-246				

V Brg Wid = 2.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2565	G - H	0	-2521
C - D	0	-2565	H - I	0	-698
D - E	0	-3256	I - J	0	-698
E - F	0	-3256	J - K	1825	0
F - G	0	-3256	K - L	1825	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1507	0	R - Q	0	-2561
U - T	3113	0	Q - P	0	-2561
T - S	2904	0	P - O	0	-2561
S - R	2477	0	O - N	0	-681

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1714	H - R	0	-2670
B - U	1208	0	R - J	3882	0
U - D	0	-625	J - P	0	-3088
T - G	402	0	J - O	1065	0
G - S	0	-598	O - L	0	-1307
S - H	486	0	L - N	779	0

Lumber

Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)

TC: From	87 plf at	0.00 to	87 plf at	23.81
BC: From	13 plf at	0.00 to	13 plf at	23.81

TC: 1500 lb Conc. Load at 13.90

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

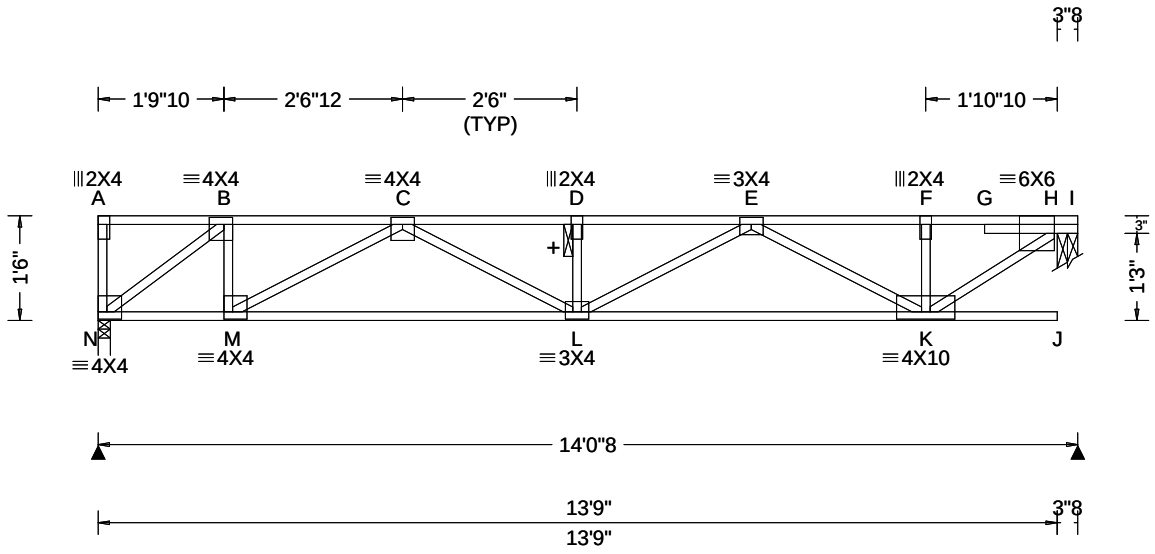
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96801 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F23	Cust: R 9316 JRef:1Xf393160009 T25 / DrwNo: 118.22.1357.06074 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.092	D	999	480
VERT(CL): 0.172	D	970	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.029	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.613
Max BC CSI: 0.522
Max Web CSI: 0.325

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	694	/-	/-	/-	/-	/-
H	707	/-	/-	/-	/-	/-

N Brg Wid = 2.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-869	E - F	0	-931
C - D	0	-1793	F - H	0	-930
D - E	0	-1793			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	831	0	L - K	1548	0
M - L	1525	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1045	E - K	0	-704
B - M	425	0	K - H	1152	0
M - C	0	-752			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

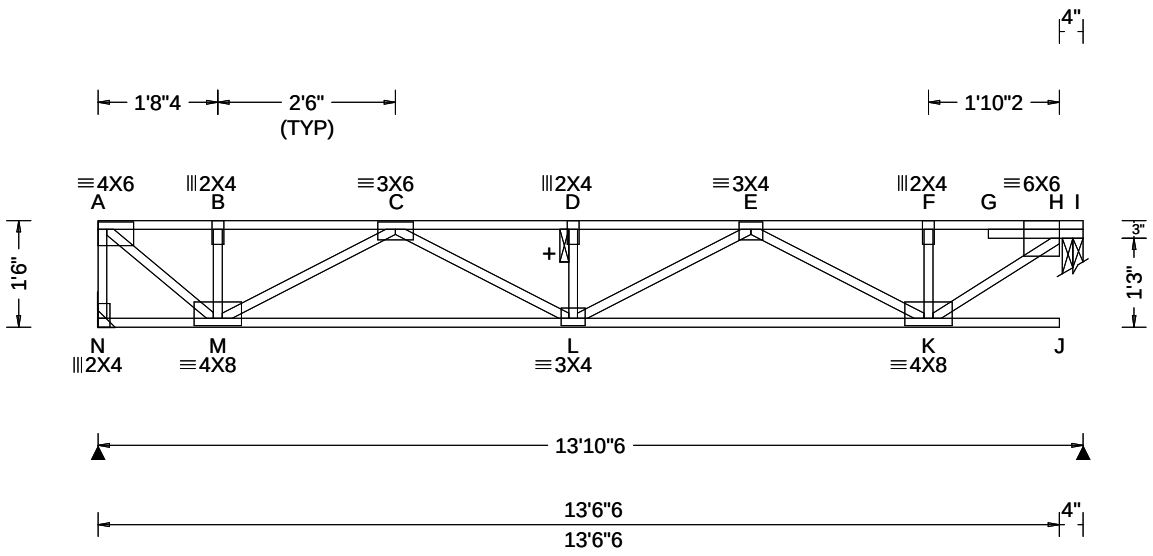
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96803 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F24	Cust: R 9316 JRef:1Xf393160009 T3 / DrwNo: 118.22.1357.05750 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.090	D	999	480
VERT(CL): 0.167	D	982	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.604
Max BC CSI: 0.513
Max Web CSI: 0.320

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	685	/-	/-	/-	/-	/-
H	697	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-776	D - E	0	-1749
B - C	0	-776	E - F	0	-917
C - D	0	-1749	F - H	0	-916

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1463	0	L - K	1518	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-684	E - K	0	-687
A - M	1001	0	K - H	1134	0
M - C	0	-784			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

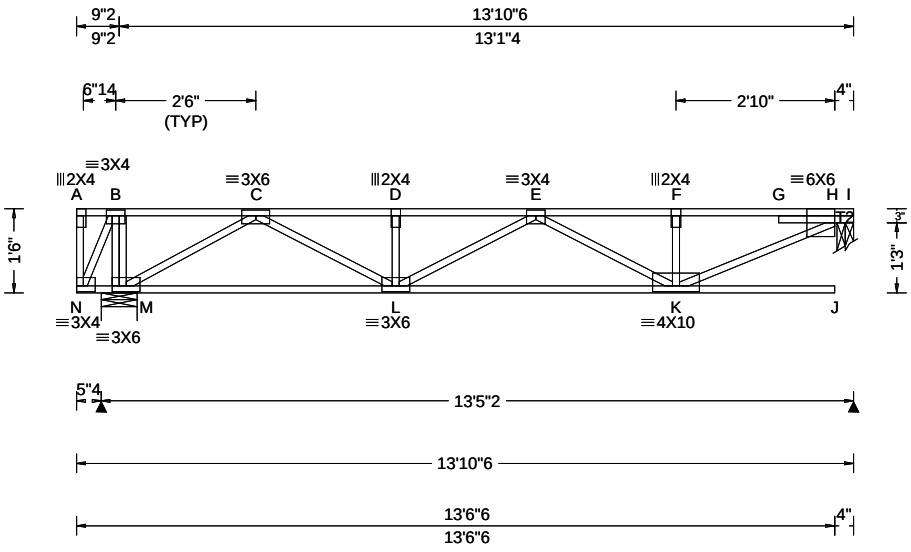
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96805 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F25	Cust: R 9316 JRef:1Xf393160009 T11 / DrwNo: 118.22.1357.06250 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	J	784	480
VERT(CL): 0.316	J	488	360
HORZ(LL): 0.013	A	-	-
HORZ(TL): 0.024	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.609
Max BC CSI: 0.630
Max Web CSI: 0.367

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
M	729	/-	/-		/-	/-	/-
H	659	/-	/-		/-	/-	/-

M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-1447	E - F	0	-1177
D - E	0	-1447	F - H	0	-1178

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	912	0	L - K	1482	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	-1015	K - H	1301	0
C - L	614	0			

Lumber

Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

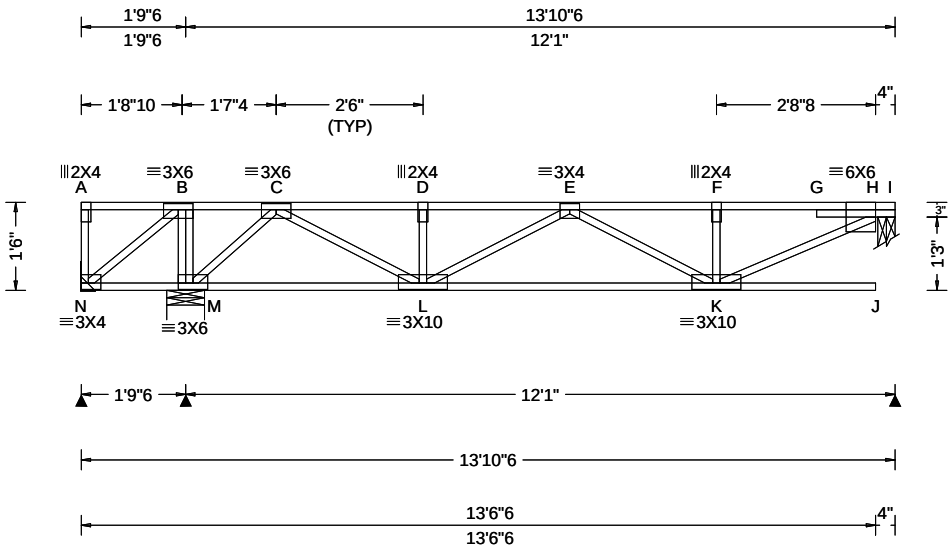
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96807 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F26	Cust: R 9316 JRef:1Xf393160009 T5 / DrwNo: 118.22.1357.05851 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.158	J	897	480
VERT(CL): 0.249	J	570	360
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.284

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-358	/-	/-	/-	/-
M	1154	/-	/-	/-	/-	/-
H	547	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	510	0	E - F	0	-902
C - D	0	-819	F - H	0	-903
D - E	0	-819			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-465	L - K	1035	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	596	0	C - L	815	0
B - M	0	-533	K - H	1005	0
M - C	0	-843			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

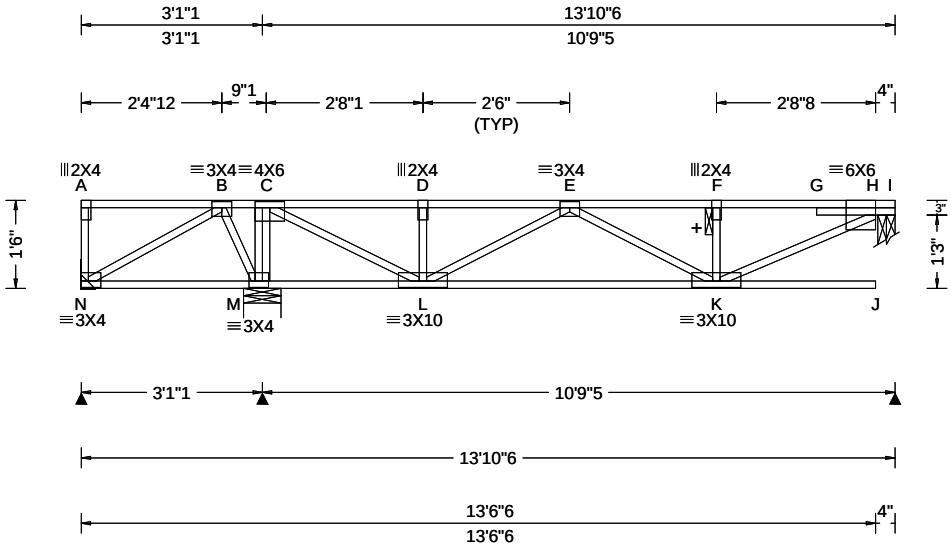
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96809 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F27	Cust: R 9316 JRef:1Xf393160009 T9 / DrwNo: 118.22.1357.05749 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	869	480
VERT(CL): 0.233	J	549	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.748
Max BC CSI: 0.436
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
N	44 /-139	/-	/-	/-	/-	
M	963 /-	/-	/-	/-	/-	
H	491 /-	/-	/-	/-	/-	

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	427	0	E - F	0	- 782
C - D	0	- 495	F - H	0	- 784
D - E	0	- 495			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	815	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	- 633	K - H	872	0
C - L	964	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

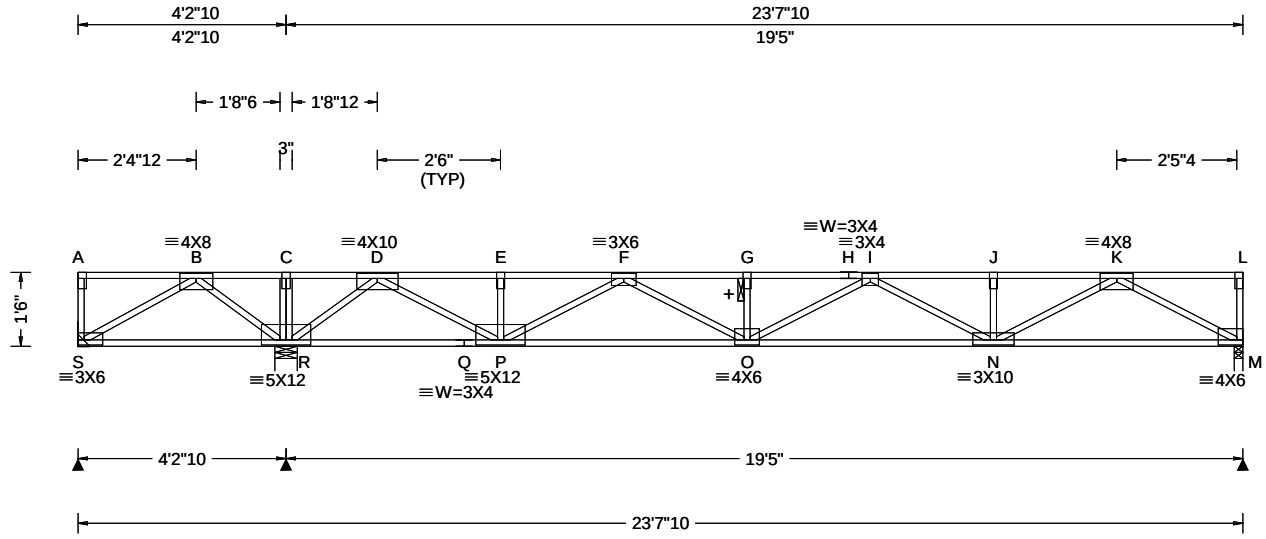
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96811 / SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F28	Cust: R 9316 JRef:1Xf393160009 T10 / DrwNo: 118.22.1357.05850 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.196	G	999	480
VERT(CL): 0.369	G	630	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.795
Max Web CSI: 0.467

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Non-Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
S	-	/-490	/-	/-	/-	/-
R	1906	/-	/-	/-	/-	/-
M	843	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1763	0	G - H	0	- 2527
C - D	1763	0	H - I	0	- 2527
D - E	0	- 1026	I - J	0	- 2216
E - F	0	- 1026	J - K	0	- 2216
F - G	0	- 2527			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	- 944	P - O	1976	0
R - Q	0	- 440	O - N	2573	0
Q - P	0	- 440	N - M	1350	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1088	0	F - O	633	0
B - R	0	- 1142	I - N	0	- 408
R - D	0	- 1649	N - K	988	0
D - P	1656	0	K - M	0	- 1532
P - F	0	- 1087			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -490# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

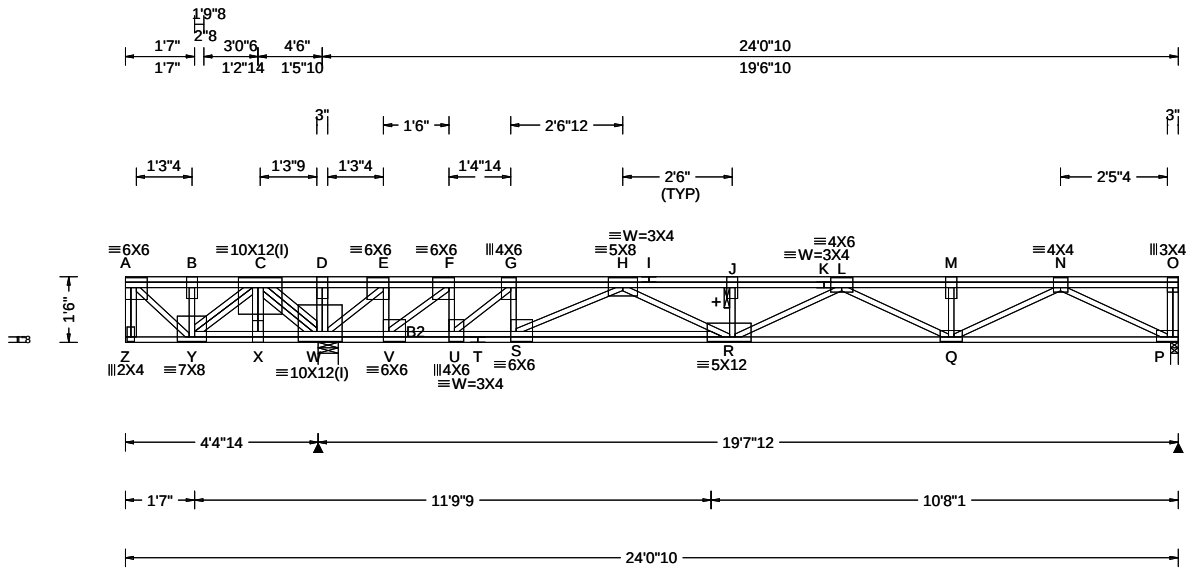
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96813 / SY42 FROM:	Ply: 2 Qty: 3	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F28G	Cust: R 9316 JRef:1Xf393160009 T12 / DrwNo: 118.22.1357.05685 / NDW 04/28/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.120	A	443	480
VERT(CL): 0.268	Z	396	360
HORZ(LL): -0.025	A	-	-
HORZ(TL): 0.057	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.433
Max BC CSI: 0.260
Max Web CSI: 0.271

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	8750	/-	/-	/-	/-	/-
P	618	/-243	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	597	0	H - I	1855	- 383
B - C	597	0	I - J	1855	- 383
C - D	5342	0	J - K	1853	- 389
D - E	5337	0	K - L	1853	- 389
E - F	4767	0	L - M	685	- 689
F - G	4126	0	M - N	685	- 689
G - H	3551	0			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	- 1645	T - S	0	- 3597
X - W	0	- 1635	S - R	0	- 2646
W - V	0	- 4815	R - Q	647	- 1215
V - U	0	- 4178	Q - P	456	- 296
U - T	0	- 3597			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	- 789	G - S	577	0
Y - C	1366	0	S - H	0	- 1230
C - W	0	- 5021	H - R	961	0
W - E	0	- 1030	R - L	0	- 716
E - V	677	0	L - Q	599	0
V - F	0	- 1093	Q - N	264	- 439
F - U	694	0	N - P	330	- 495
U - G	0	- 980			

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.05
BC: From 13 plf at 0.00 to 13 plf at 24.05
TC: 1129 lb Conc. Load at 0.12
TC: 5500 lb Conc. Load at 3.03

Plating Notes

All plates are 3X6 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

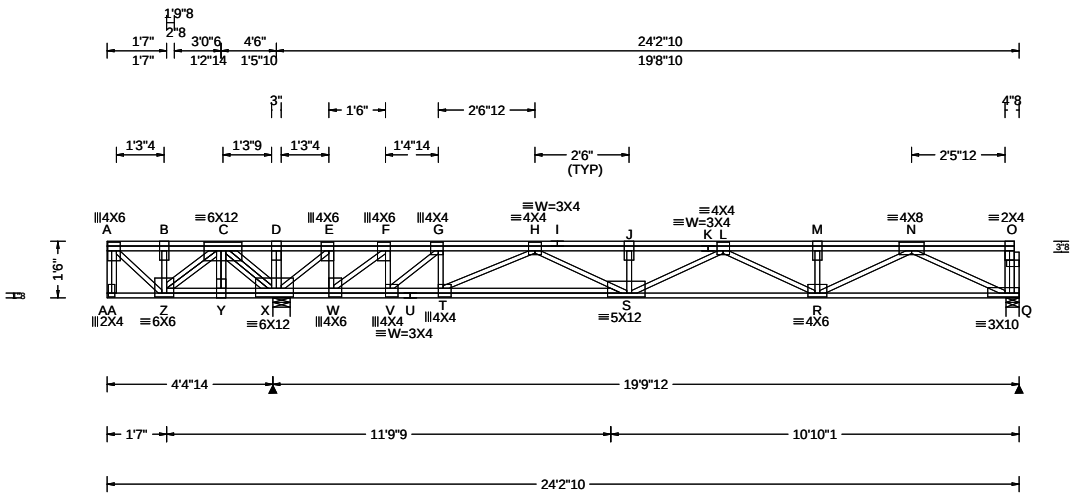
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96825 / SY42 FROM:	Ply: 2 Qty: 1	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F29G	Cust: R 9316 JRef:1Xf393160009 T27 / DrwNo: 118.22.1357.06839 / NDW 04/28/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.094	L	999	480
VERT(CL): 0.183	J	999	360
HORZ(LL): 0.014	Q	-	-
HORZ(TL): 0.029	Q	-	-

Creep Factor: 2.0
Max TC CSI: 0.108
Max BC CSI: 0.506
Max Web CSI: 0.191

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
X	1475	/-	/-	/-	/-	/-
Q	974	/-	/-	/-	/-	/-

X Brg Wid = 5.5 Min Req = 1.5 (Truss)
Q Brg Wid = 4.1 Min Req = 1.5 (Truss)
Bearings X & Q are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	375	0	I - J	0	-1744
E - F	101	-392	J - K	0	-1750
F - G	0	-854	K - L	0	-1750
G - H	0	-1223	L - M	0	-1395
H - I	0	-1744	M - N	0	-1395

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
W - V	820	0	T - S	1596	0
V - U	1199	0	S - R	1672	0
U - T	1199	0	R - Q	841	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
X - E	0	-684	T - H	0	-452
E - W	397	0	R - N	626	0
W - F	0	-599	N - Q	0	-938
V - G	0	-501			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 3X6 except as noted.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.
See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

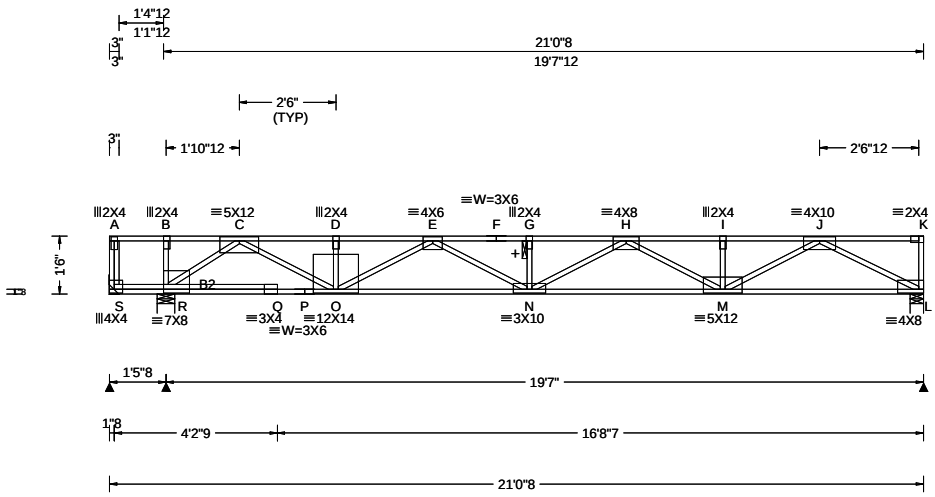
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 9794 / SY42 FROM:	Ply: 2 Qty: 1	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F30G	Cust: R 9316 JRef:1Xf393160009 T22 / DrwNo: 118.22.1357.06763 / NDW 04/28/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.316	G	741	480
VERT(CL): 0.593	G	395	360
HORZ(LL): 0.043	C	-	-
HORZ(TL): 0.080	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.658
Max BC CSI: 0.747
Max Web CSI: 0.609

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	23	/-94	/-	/-	/-	/-
R	3996	/-	/-	/-	/-	/-
L	1984	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 4.1 Min Req = 1.5 (Truss)
Bearings R & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-3821	G - H	0	-5191
D - E	0	-3821	H - I	0	-3282
E - F	0	-5191	I - J	0	-3282
F - G	0	-5191			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	1931	0	O - N	4919	0
Q - P	1930	0	N - M	4530	0
P - O	1930	0	M - L	1824	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - R	0	-461	G - N	0	-474
R - C	0	-2401	N - H	754	0
C - O	2159	0	H - M	0	-1425
D - O	0	-468	M - J	1663	0
O - E	0	-1252	J - L	0	-2049

Lumber

Top chord: 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 20.92
BC: From 13 plf at 0.00 to 13 plf at 21.04
TC: 443 lb Conc. Load at 0.94
TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27 7.60, 8.94,10.27,11.60,12.94

Deflection

Max JT VERT DEFL: LL: 0.31" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

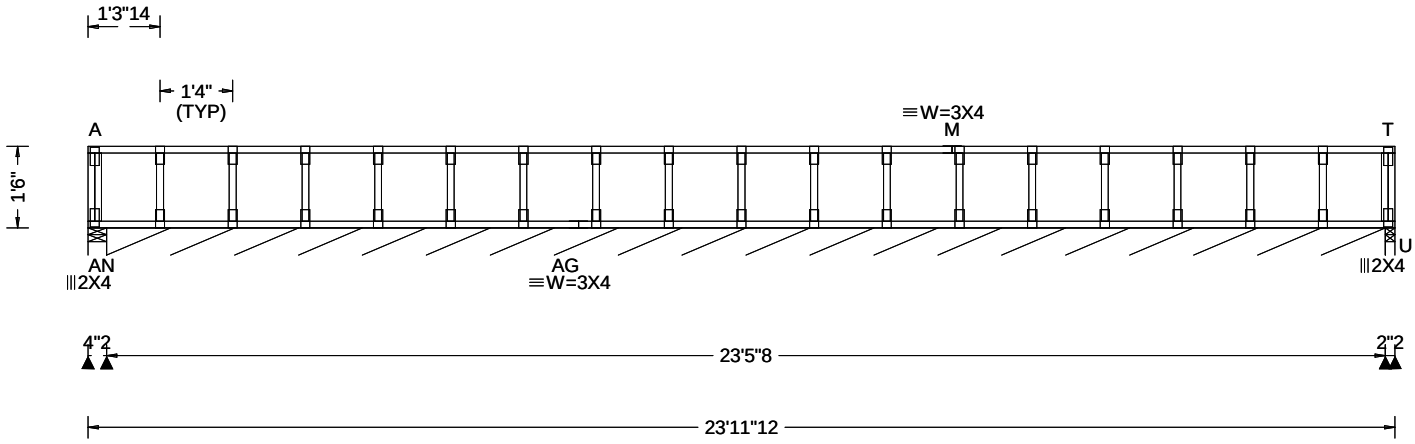
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96815 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L11	Cust: R 9316 JRef:1Xf393160009 T29 / DrwNo: 118.22.1357.06151 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	T	999	480
VERT(CL): 0.001	T	999	360
HORZ(LL): -0.003	B	-	-
HORZ(TL): 0.005	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.060
Max BC CSI: 0.013
Max Web CSI: 0.018

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AN	68 /-	/-	/-	/-	/-
AN*	97 /-	/-	/-	/-	/-
U	64 /-	/-	/-	/-	/-

AN Brg Wid = 4.1 Min Req = 1.5 (Truss)
AN Brg Wid = 281 Min Req = -
U Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AN, AN, & U are a rigid surface.
Members not listed have forces less than 375#

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing
Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 2X4 except as noted.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

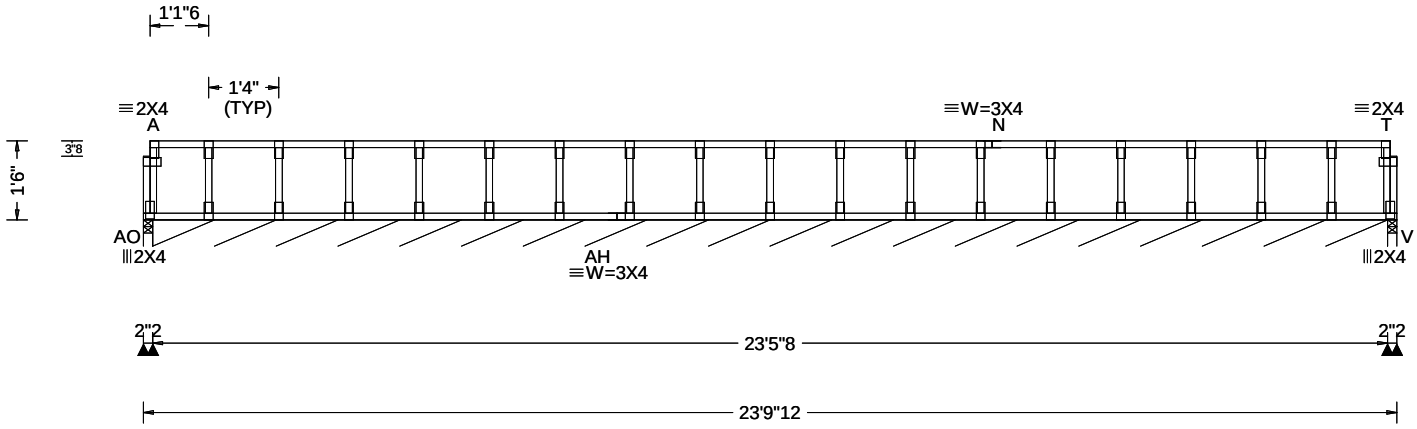
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96817 / SY42 FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L21	Cust: R 9316 JRef:1Xf393160009 T30 / DrwNo: 118.22.1357.06275 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	T	999	480
VERT(CL): 0.000	T	999	360
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.057
Max BC CSI: 0.009
Max Web CSI: 0.018

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AO	48	/-	/-	/-	/-	/-
AO	*97	/-	/-	/-	/-	/-
V	48	/-	/-	/-	/-	/-

AO Brg Wid = 2.1 Min Req = 1.5 (Truss)
AO Brg Wid = 281 Min Req = -
V Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AO, AO, & V are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

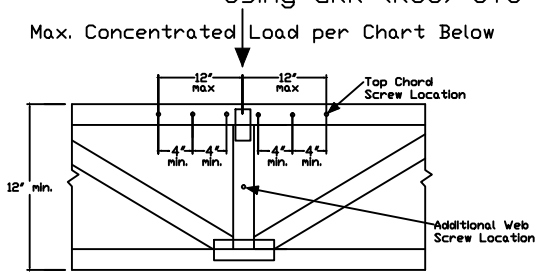
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

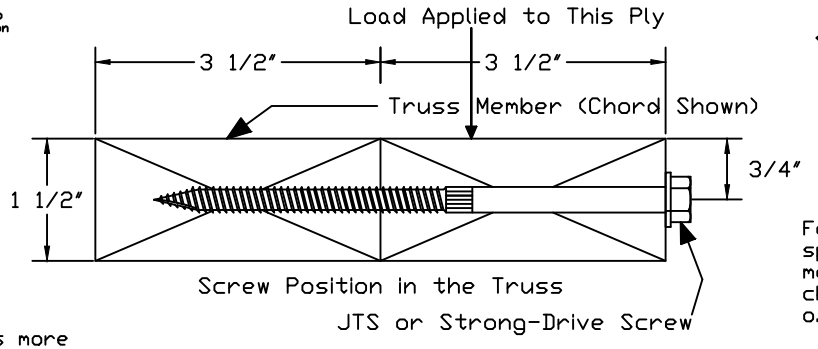
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

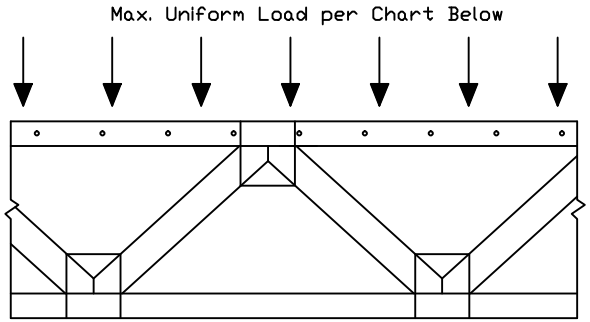
System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.



Refer to Alpine sealed drawing for individual truss design.





Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200

ALPINE® ITW COMPANY

Texas Registered Engineering Firm F-8037
1250 E. Copeland Rd. Suite 1Floor
Arlington, TX 76011
Feb 28, 2025

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL		PSF
TC DL		PSF
BC DL		PSF
BC LL		PSF
TOT. LD.		PSF
DUR. FAC.	1.00	
SPACING		

REF	SY42 Connection
DATE	01/19/2018
DRWG	CNSY42PL0118

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

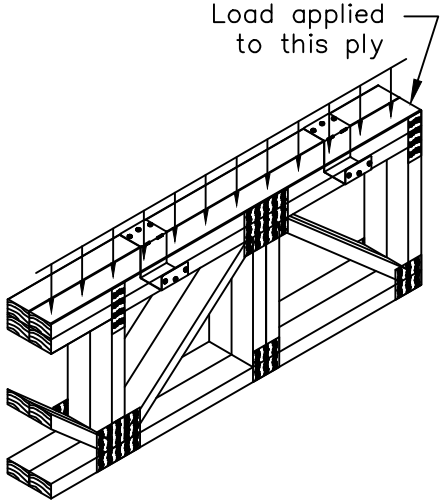
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL

FOR DOWNWARD LOADS ONLY

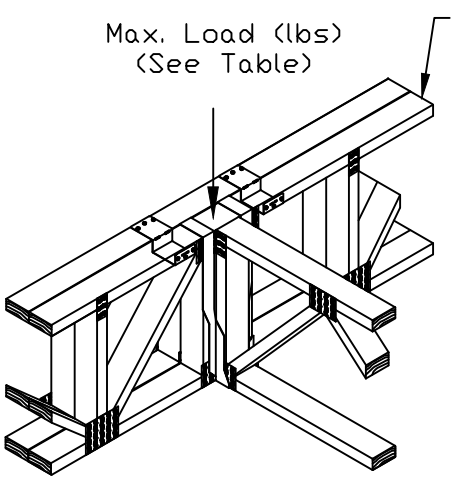
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application



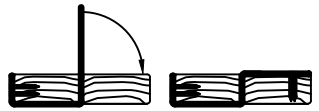
Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

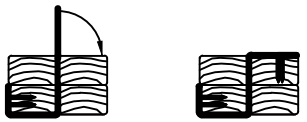
Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.

2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.

****WARNING!** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

ALPINE® ITW COMPANY
Hades 3 Floor
Plano, TX 75025

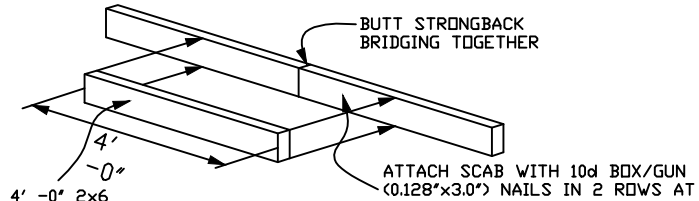
DUR. FAC. ALL

REF SY42 Connection
DATE 10/01/14
DRWG LSCSYX2A1014

MiTek Recommended

04/28/2022

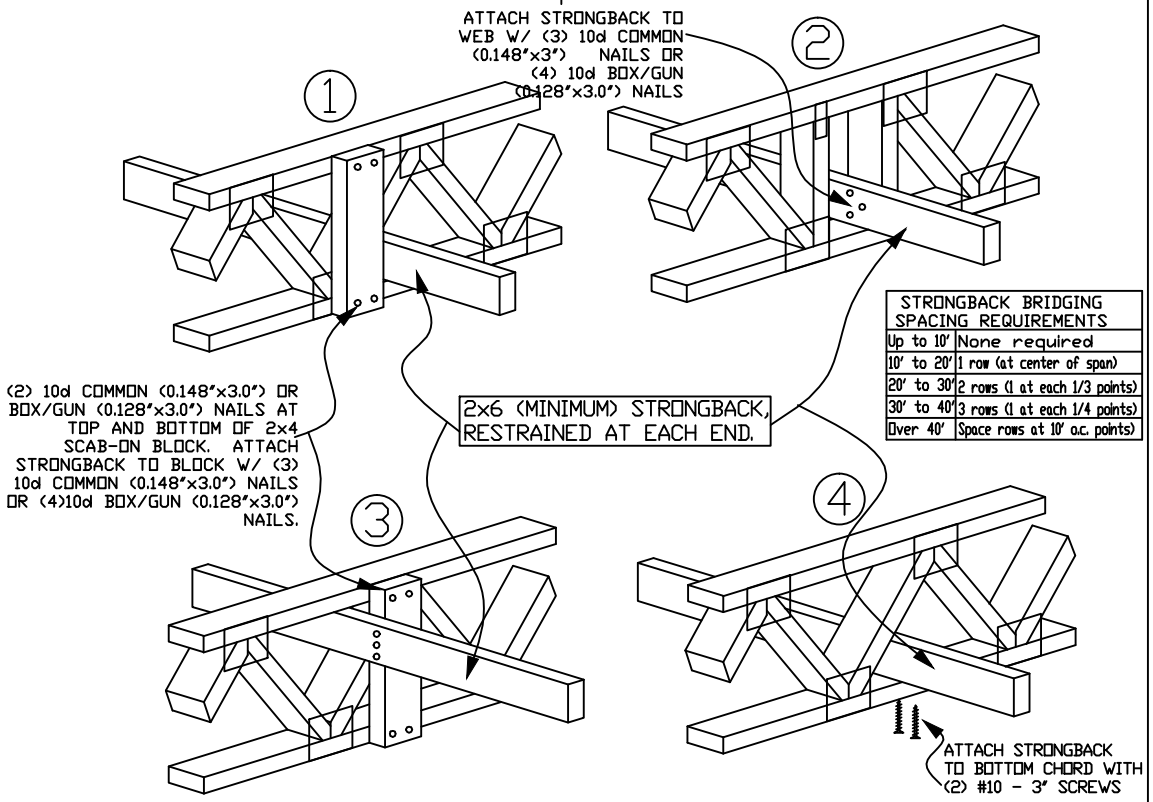
STRONGBACK BRIDGING RECOMMENDATIONS



NOTE: IN LIEU OF SPLICING AS SHOWN, LAP STRONGBACK BRIDGING MEMBERS FOR AT LEAST ONE TRUSS SPACING

STRONGBACK BRIDGING SPLICE DETAIL

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING SPACING REQUIREMENTS	
Up to 10'	None required
10' to 20'	1 row (at center of span)
20' to 30'	2 rows (1 at each 1/3 points)
30' to 40'	3 rows (1 at each 1/4 points)
Over 40'	Space rows at 10' o.c. points)

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

- All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

ALPINE® ITW COMPANY

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL	PSF	REF STRONGBACK
TC DL	PSF	DATE 10/01/14
BC DL	PSF	DRWG STRBRIBR1014
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.	1.00	
SPACING		

Building 6

B D C

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 10, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Roof Layout Shop Drawings	RETURNED NOT REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:
- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Building 6

Group 6 Roof Layout

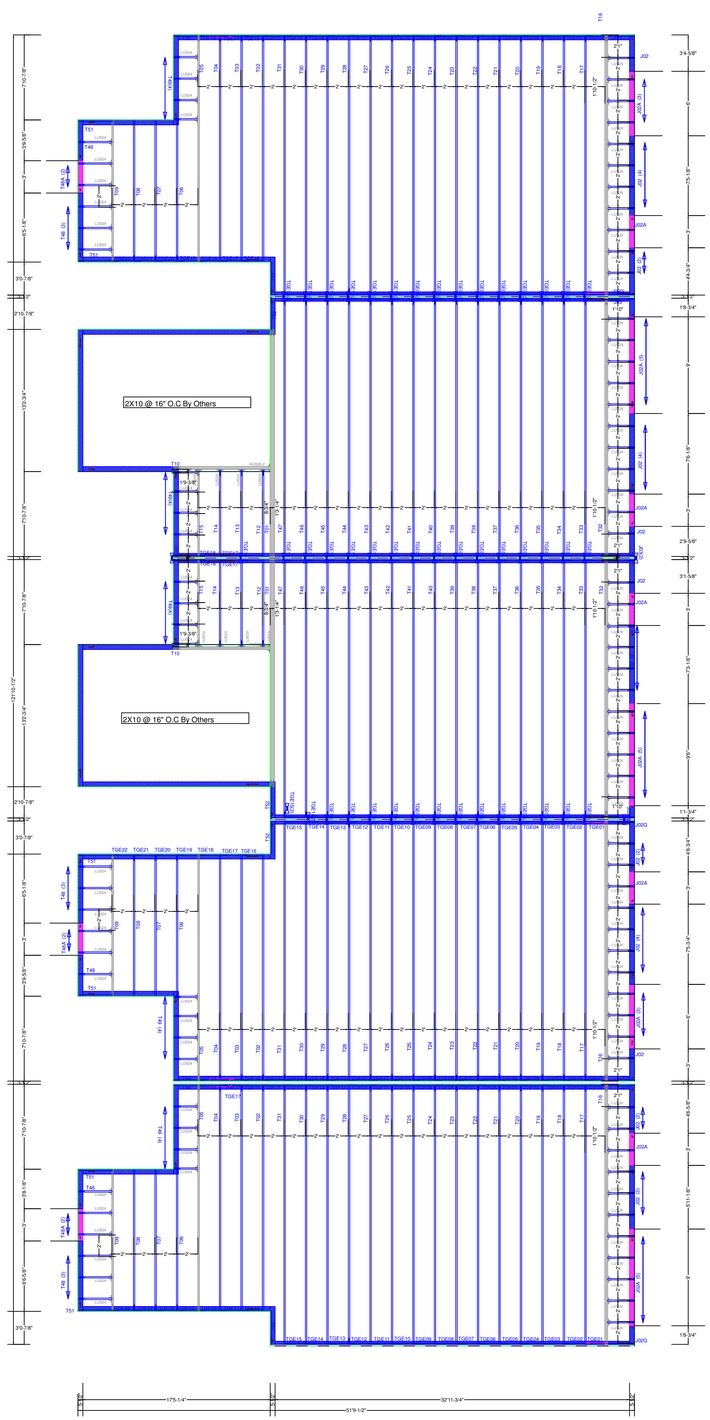
Total Truss Quantity = 405.

Total Plan Area with OHs = 5670 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
	= HUS26-2	4	
	= LUS24	99	Simpson

BEARING WALL & BEAM HEIGHTS
- 19'
- 19'1-3/4"



ROOF TRUSS LAYOUT (NTS)

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 5/23/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW
REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS
- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY
Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS
DATE: 05/10/2022 BY: CB

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

Job Name: McCambridge Brothers Construction

Designer: Juan R Quiroz

Date: 4/28/2022

Reference #: JB-220579R

mill Creek
3363 S. Halstead Rd.
Haysville, KS 67060
(316) 830-6108

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

Building 6

04/28/2022

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 5/23/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED. REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/10/2022 BY: CB

Site Information:	**Page 1:**
Customer: Mill Creek Truss	*Job Number:* JB-220579R
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1Xf393160008
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 109 *Building Type:* Closed	*Design Loading (psf):* 60.00

This package contains general notes pages, 79 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	118.22.1352.51396	J02	2	118.22.1352.49327	J02G
3	118.22.1352.49517	J03	4	118.22.1352.51059	T01
5	118.22.1352.49762	T02	6	118.22.1352.51361	T03
7	118.22.1352.50338	T04	8	118.22.1352.49564	T05
9	118.22.1352.52026	T06	10	118.22.1352.50037	T07
11	118.22.1352.48896	T08	12	118.22.1352.51083	T10
13	118.22.1352.49487	T12	14	118.22.1352.50663	T13
15	118.22.1352.52044	T14	16	118.22.1352.48879	T15
17	118.22.1415.54180	T17	18	118.22.1352.50211	T18
19	118.22.1352.50431	T19	20	118.22.1352.50188	T20
21	118.22.1352.50577	T21	22	118.22.1352.50991	T22
23	118.22.1352.52090	T23	24	118.22.1352.51547	T24
25	118.22.1352.49721	T25	26	118.22.1352.51510	T26
27	118.22.1352.50925	T27	28	118.22.1352.49680	T28
29	118.22.1352.50625	T29	30	118.22.1352.48938	T30
31	118.22.1352.52054	T31	32	118.22.1352.50707	T33
33	118.22.1352.50313	T34	34	118.22.1352.50376	T35
35	118.22.1352.51466	T36	36	118.22.1352.52134	T37
37	118.22.1352.51223	T38	38	118.22.1352.51424	T39
39	118.22.1352.50169	T40	40	118.22.1352.50626	T41
41	118.22.1352.50826	T42	42	118.22.1352.50827	T43
43	118.22.1352.50540	T44	44	118.22.1352.50730	T45
45	118.22.1352.50022	T46	46	118.22.1352.50496	T47
47	118.22.1352.49505	T48	48	118.22.1352.51589	T49
49	118.22.1352.51169	T50	50	118.22.1352.51692	T51

Building 6

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

04/28/2022

Site Information:	Page 2:
Customer: Mill Creek Truss	*Job Number:* JB-220579R
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	118.22.1352.51642	T52
53	118.22.1352.51165	TGE02
55	118.22.1352.51771	TGE04
57	118.22.1352.49300	TGE06
59	118.22.1352.50251	TGE08
61	118.22.1352.50940	TGE10
63	118.22.1352.49656	TGE12
65	118.22.1352.49303	TGE14
67	118.22.1352.48867	TGE16
69	118.22.1352.49381	TGE18
71	118.22.1352.49142	TGE20
73	118.22.1352.51095	TGE22
75	118.22.1415.27923	T09
77	118.22.1352.51535	T48A
79	118.22.1415.46960	T16
81	BRCLBSUB0119	
83	GABRST160118	

Item	Drawing Number	Truss
52	118.22.1352.52159	TGE01
54	118.22.1352.51814	TGE03
56	118.22.1352.49610	TGE05
58	118.22.1352.50065	TGE07
60	118.22.1352.50855	TGE09
62	118.22.1352.51726	TGE11
64	118.22.1352.49820	TGE13
66	118.22.1352.51673	TGE15
68	118.22.1352.48895	TGE17
70	118.22.1352.50091	TGE19
72	118.22.1352.50865	TGE21
74	118.22.1352.50901	TGE23
76	118.22.1352.49929	J02A
78	118.22.1416.09013	T32
80	A11530ENC160118	
82	DEFLCAMB1014	
84	GBLLETIN0118	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

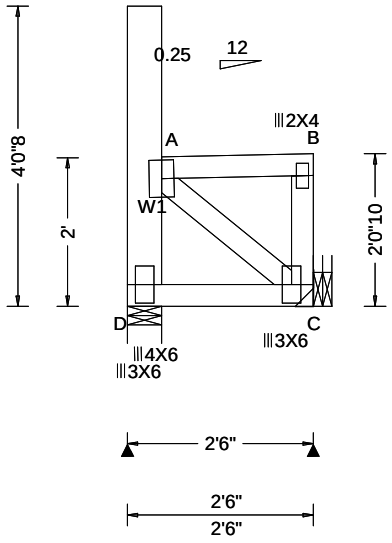
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 6

SEQN: 34418 / MONO FROM:	Ply: 1 Qty: 29	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02	Cust: R 9316 JRef:1Xf393160008 T193 DrwNo: 118.22.1352.51396 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.103
Max BC CSI: 0.066
Max Web CSI: 0.131

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	134	/-	/-	/101	/79	/90
C	160	/-	/-	/144	/63	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
A - C	238	-387

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

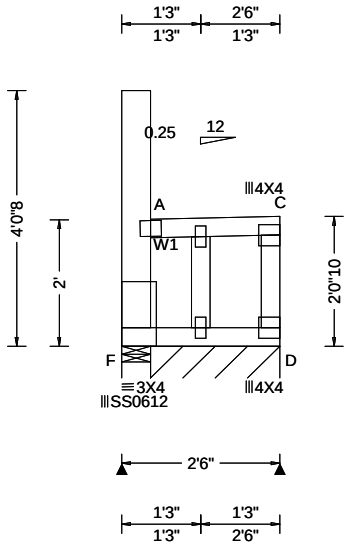
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34420 / GABL FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02G	Cust: R 9316 JRef:1Xf393160008 T109 DrwNo: 118.22.1352.49327 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
18SS, WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	A	999	360
VERT(CL): 0.007	A	999	240
HORZ(LL): 0.091	A	-	-
HORZ(TL): 0.104	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.128
Max BC CSI: 0.370
Max Web CSI: 0.163

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	42	/-	/-	/118	/145	/98
D*	124	/-	/-	/120	/57	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 24.5 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

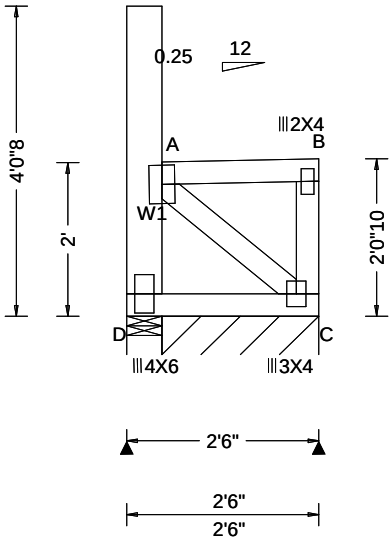
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34421 / MONO FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J03	Cust: R 9316 JRef:1Xf393160008 T133 DrwNo: 118.22.1352.49517 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 B	999	360
VERT(CL):	0.000 B	999	240
HORZ(LL):	0.001 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.103
Max BC CSI: 0.066
Max Web CSI: 0.105

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	134	/-	/-	/110	/85	/98
C*	79	/-	/-	/72	/33	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = 24.5 Min Req = -
Bearings D & D are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

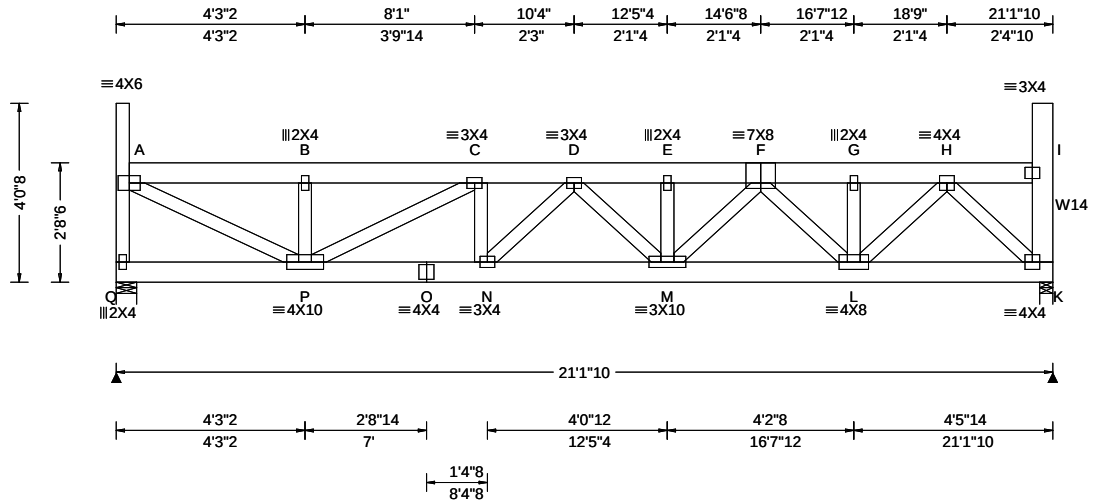
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34497 / FLAT FROM:	Ply: 3 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T01	Cust: R 9316 JRef:1Xf393160008 T10 / DrwNo: 118.22.1352.51059 / NDW 04/28/2022	

3 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.060	D	999	360
VERT(CL): 0.102	D	999	240
HORZ(LL): 0.014	K	-	-
HORZ(TL): 0.024	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.049
Max BC CSI: 0.262
Max Web CSI: 0.269

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	1828	/-	/-	/-	/117	/-
K	2145	/-	/-	/-	/150	/-

Wind reactions based on MWFRS
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
K Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings Q & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	68	- 1022	E - F	154	- 2045
B - C	67	- 1018	F - G	93	- 1282
C - D	115	- 1654	G - H	93	- 1282
D - E	154	- 2045			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	1617	- 112	M - L	1696	- 125
O - N	1617	- 112	L - K	710	- 51
N - M	1870	- 135			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - A	37	- 575	F - L	47	- 605
A - P	1096	- 73	L - H	835	- 62
P - C	52	- 695	H - K	69	- 963
M - F	509	- 42			

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	70 plf at	0.29 to	70 plf at	20.68	
BC: From	50 plf at	0.00 to	50 plf at	21.14	

BC: 1489 lb Conc. Load at 12.90

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.39	1.34	13.80	3.32
20.68	0.00	20.39	1.34	13.80	3.32

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

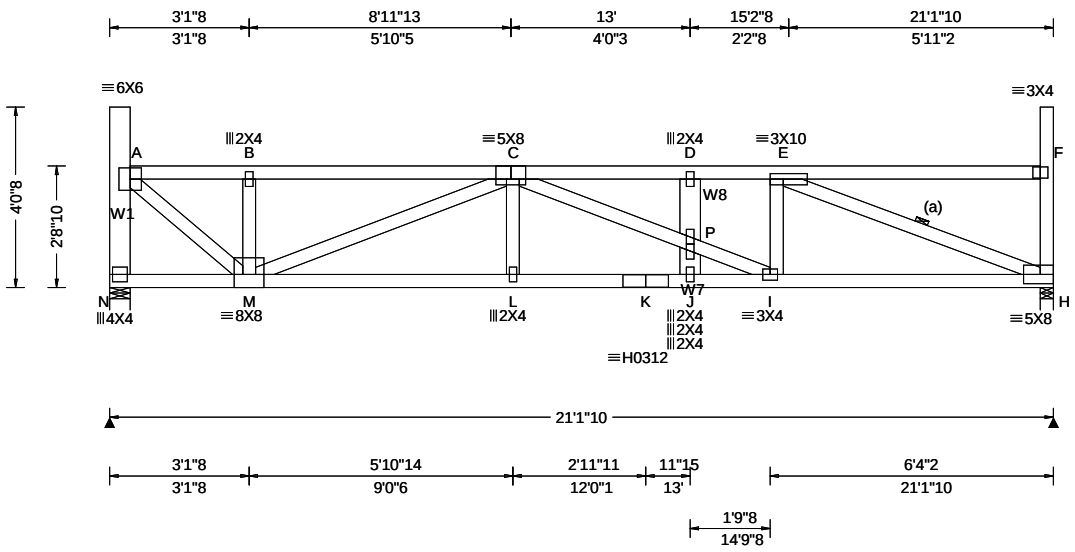
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34422 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T02	Cust: R 9316 JRef:1Xf393160008 T1 / DrwNo: 118.22.1352.49762 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.155 D	999	360
VERT(CL):	0.266 D	953	240
HORZ(LL):	0.046 H	-	-
HORZ(TL):	0.079 H	-	-

Creep Factor: 2.0
Max TC CSI: 0.427
Max BC CSI: 0.928
Max Web CSI: 0.991

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
N	1234	/-	/-	/534	/72	/120
H	1246	/-	/-	/539	/74	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.9 (Truss)
H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	136	- 1501	C - D	137	- 2445
B - C	136	- 1498	D - E	137	- 2445

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2806	- 236	J - I	2806	- 236
L - K	2806	- 236	I - H	2383	- 154
K - J	2806	- 236			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	76	- 1190	P - I	94	- 403
A - M	1788	- 116	I - E	524	- 3
M - C	127	- 1414	E - H	166	- 2524
C - P	93	- 386			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.32	13.12	3.16
20.84	0.00	20.39	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

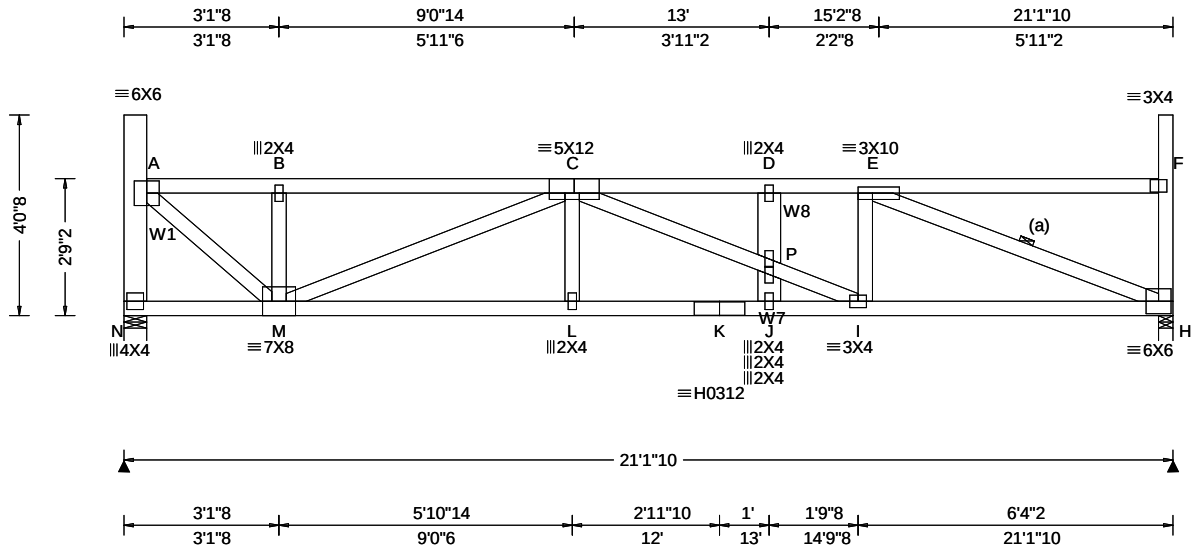
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34423 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T03	Cust: R 9316 JRef:1Xf393160008 T2 / DrwNo: 118.22.1352.51361 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.151	D	999	360
VERT(CL): 0.249	D	999	240
HORZ(LL): 0.045	H	-	-
HORZ(TL): 0.078	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.427
Max BC CSI: 0.921
Max Web CSI: 0.985

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1236	/-	/-	/534	/73	/119
H	1248	/-	/-	/539	/75	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.9 (Truss)
H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	134	- 1478	C - D	136	- 2408
B - C	134	- 1475	D - E	136	- 2408

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2766	- 235	J - I	2766	- 235
L - K	2766	- 235	I - H	2346	- 153
K - J	2766	- 235			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	77	- 1192	P - I	93	- 713
A - M	1771	- 115	I - E	525	- 3
M - C	126	- 1399	E - H	164	- 2492
C - P	92	- 694			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.28	11.74	2.83
20.84	0.00	20.39	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

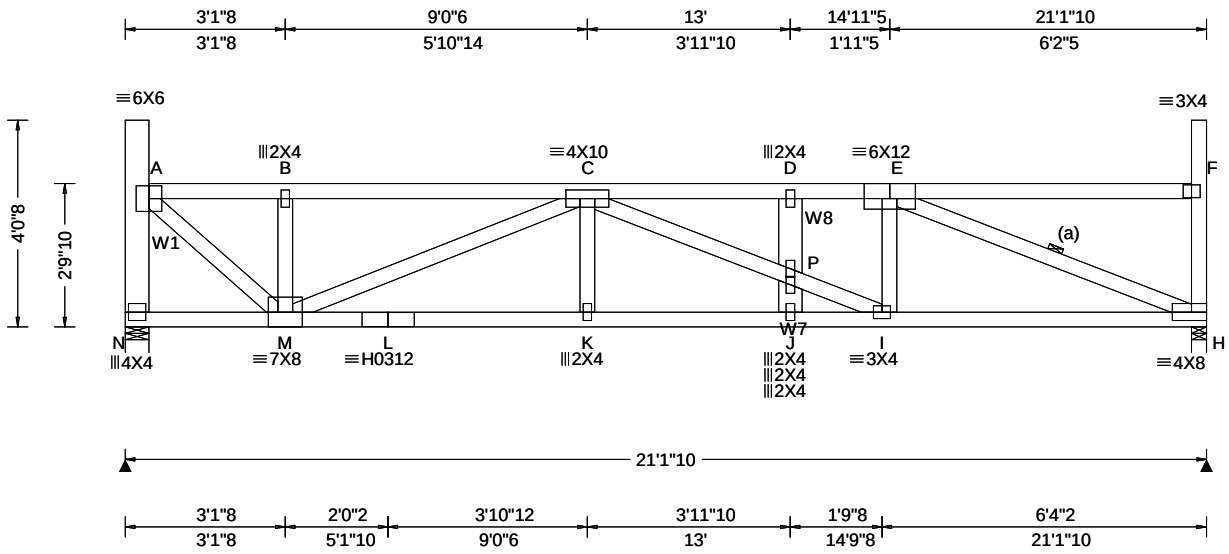
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34424 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T04	Cust: R 9316 JRef:1Xf393160008 T3 / DrwNo: 118.22.1352.50338 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	D	999	360
VERT(CL): 0.242	D	999	240
HORZ(LL): 0.045	H	-	-
HORZ(TL): 0.076	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.438
Max BC CSI: 0.913
Max Web CSI: 0.979

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1236	/-	/-	/534	/73	/118
H	1248	/-	/-	/538	/75	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.9 (Truss)
H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	132	- 1454	C - D	159	- 2365
B - C	131	- 1450	D - E	159	- 2365

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2724	- 232	J - I	2724	- 232
L - K	2724	- 232	I - H	2304	- 151
K - J	2724	- 232			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	77	- 1193	P - I	92	- 655
A - M	1753	- 114	I - E	530	- 3
M - C	124	- 1383	E - H	161	- 2453
C - P	91	- 627			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.24	10.35	2.50
20.84	0.00	20.39	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

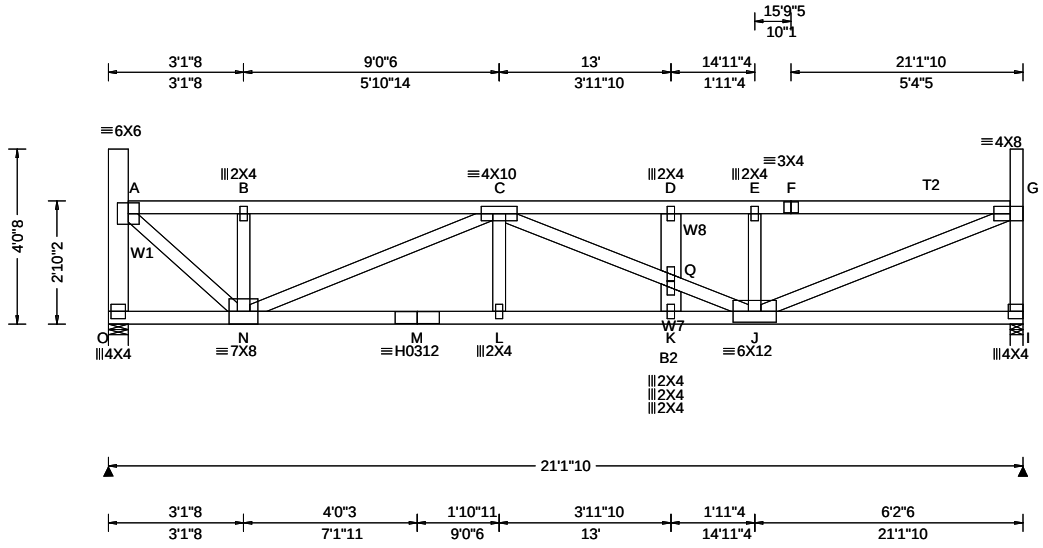
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34490 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T05	Cust: R 9316 JRef:1Xf393160008 T11 / DrwNo: 118.22.1352.49564 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.133	D	999	360
VERT(CL): 0.228	D	999	240
HORZ(LL): 0.032	A	-	-
HORZ(TL): 0.054	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.501
Max BC CSI: 0.806
Max Web CSI: 0.977

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	1236	/-	/-	/533	/73	/117
I	1248	/-	/-	/538	/75	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 1.9 (Truss)
I Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	130	- 1427	D - E	158	- 2312
B - C	129	- 1424	E - F	157	- 2308
C - D	158	- 2312	F - G	159	- 2317

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	2685	- 228	L - K	2685	- 228
M - L	2685	- 228	K - J	2685	- 228

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	78	- 1191	Q - J	88	- 416
A - N	1732	- 113	J - G	2405	- 159
N - C	120	- 1374	G - I	91	- 1115
C - Q	87	- 402			

Lumber

Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.20	8.97	2.16
20.84	0.00	20.39	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

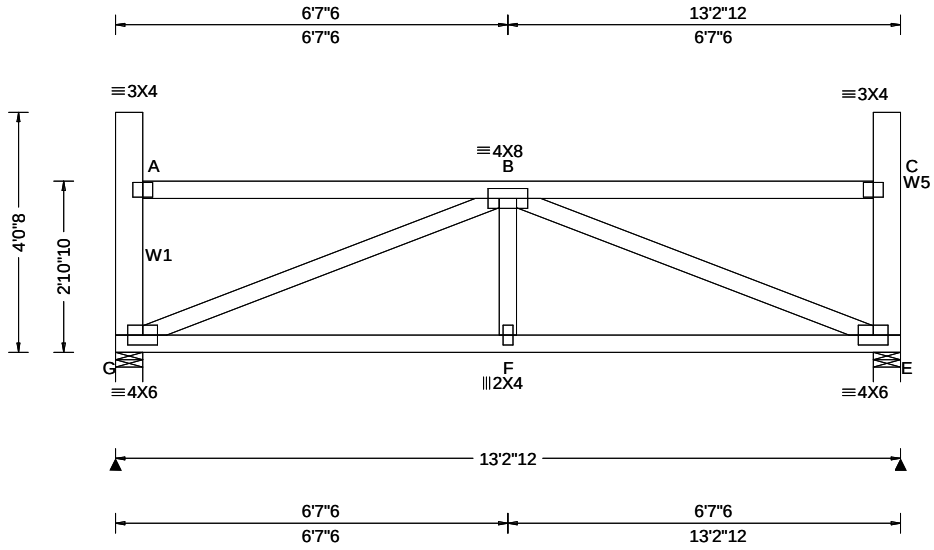
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34425 / SPEC FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T06	Cust: R 9316 JRef:1Xf393160008 T5 / DrwNo: 118.22.1352.52026 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.89 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.043 F	999	360
VERT(CL):	0.074 F	999	240
HORZ(LL):	0.015 E	-	-
HORZ(TL):	0.026 E	-	-

Creep Factor: 2.0
Max TC CSI: 0.550
Max BC CSI: 0.642
Max Web CSI: 0.986

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	762	/-	/-	/341	/56	/115
E	762	/-	/-	/341	/56	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1210	- 165	F - E	1210	- 165

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	178	- 1233	B - E	176	- 1233

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.59	1.83
12.77	0.00	20.00	1.16	7.59	1.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

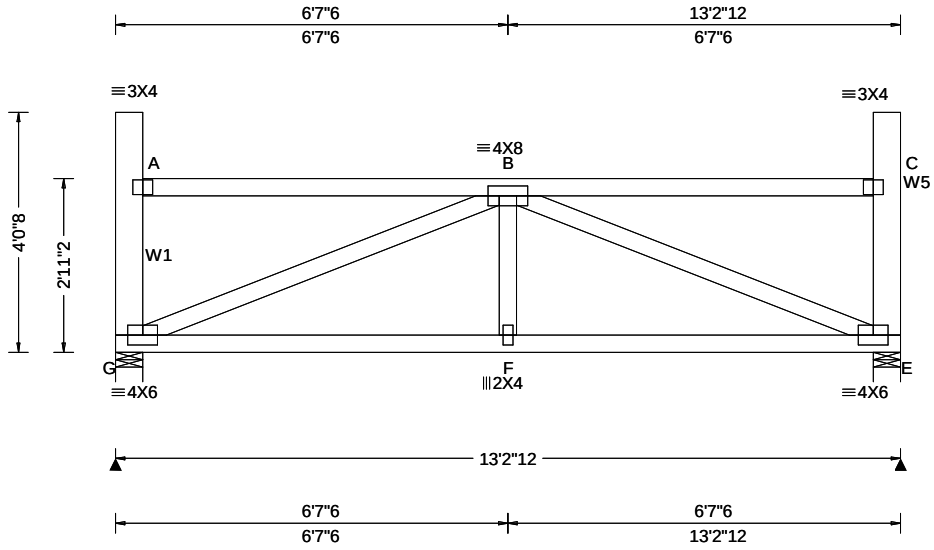
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34426 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T07	Cust: R 9316 JRef:1Xf393160008 T6 / DrwNo: 118.22.1352.50037 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.93 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.042 F	999	360
VERT(CL):	0.072 F	999	240
HORZ(LL):	0.015 E	-	-
HORZ(TL):	0.026 E	-	-

Creep Factor: 2.0
Max TC CSI: 0.551
Max BC CSI: 0.639
Max Web CSI: 0.977

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	762	/-	/-	/341	/56	/114
E	762	/-	/-	/341	/56	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1191	- 163	F - E	1191	- 163

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	174	- 1217	B - E	172	- 1217

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.11	6.20	1.50
12.77	0.00	20.00	1.11	6.20	1.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

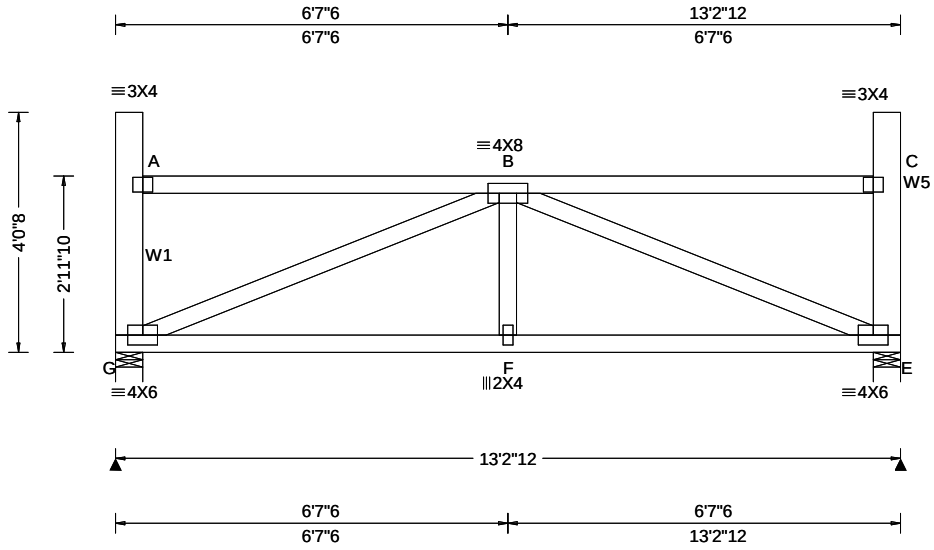
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34427 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T08	Cust: R 9316 JRef:1Xf393160008 T7 / DrwNo: 118.22.1352.48896 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.97 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.041	F	999	360
VERT(CL): 0.070	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.025	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.551
Max BC CSI: 0.636
Max Web CSI: 0.969

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	762	/-	/-	/341	/56	/113
E	762	/-	/-	/341	/56	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1173	- 161	F - E	1173	- 161

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	170	- 1201	B - E	168	- 1201

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

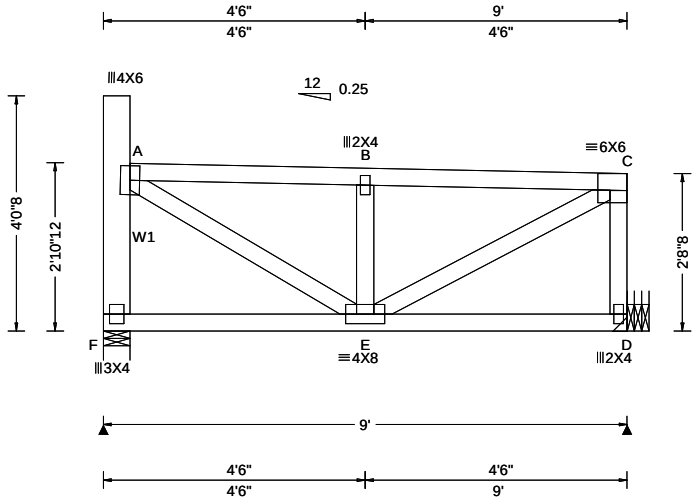
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34496 / MONO FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T10	Cust: R 9316 JRef:1Xf393160008 T9 / DrwNo: 118.22.1352.51083 / NDW 04/28/2022

2 Complete Trusses Required



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.80 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.015 B 999 360 VERT(CL): 0.026 B 999 240 HORZ(LL): 0.004 A - - HORZ(TL): 0.006 A - - Creep Factor: 2.0 Max TC CSI: 0.117 Max BC CSI: 0.676 Max Web CSI: 0.213 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
F	1266 /-	/-	/-	/176	/-
D	1489 /-	/-	/-	/148	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = - Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	95	-793	B - C	95	-794

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
F - A	50	-453	E - C	869	-106
A - E	832	-95	C - D	54	-471

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 4.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	35 plf at	0.46 to	35 plf at	9.00
BC: From	50 plf at	0.00 to	50 plf at	2.33
BC: From	25 plf at	2.33 to	25 plf at	9.00

BC: 713 lb Conc. Load at 2.33
BC: 487 lb Conc. Load at 4.33, 6.33, 8.33

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.84

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

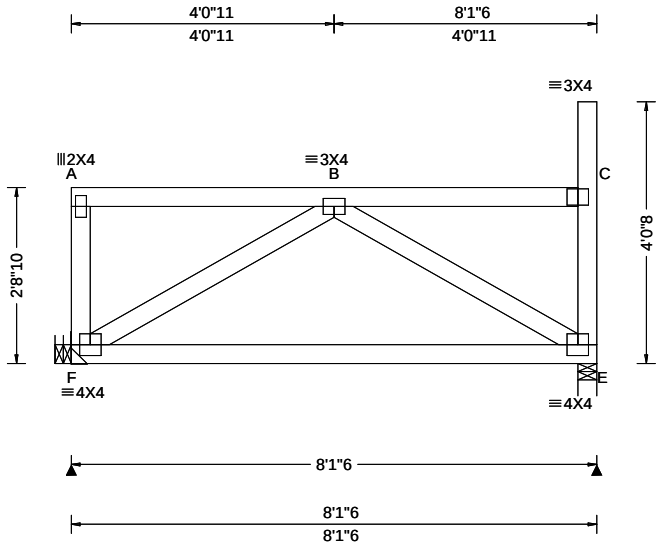
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34428 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T12	Cust: R 9316 JRef:1Xf393160008 T210 DrwNo: 118.22.1352.49487 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.004	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.216
Max BC CSI: 0.818
Max Web CSI: 0.203

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	487	/-	/-	/229	/43	/92
E	467	/-	/-	/214	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

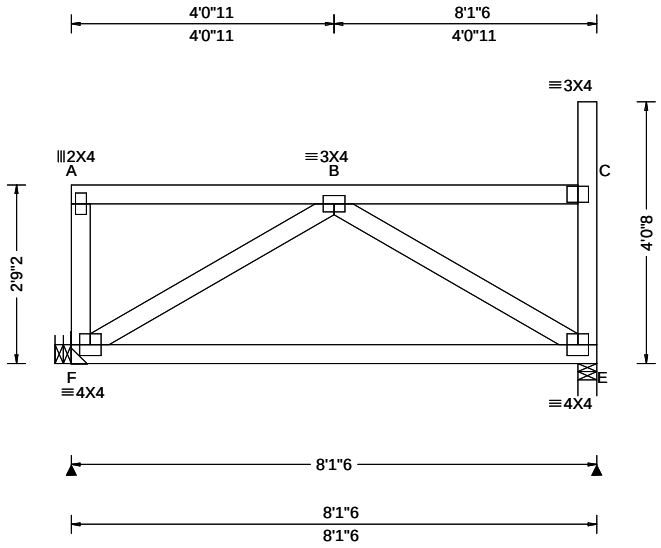
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34429 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T13	Cust: R 9316 JRef:1Xf393160008 T126 DrwNo: 118.22.1352.50663 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.004	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.216
Max BC CSI: 0.817
Max Web CSI: 0.203

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	487	/-	/-	/229	/44	/91
E	467	/-	/-	/214	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

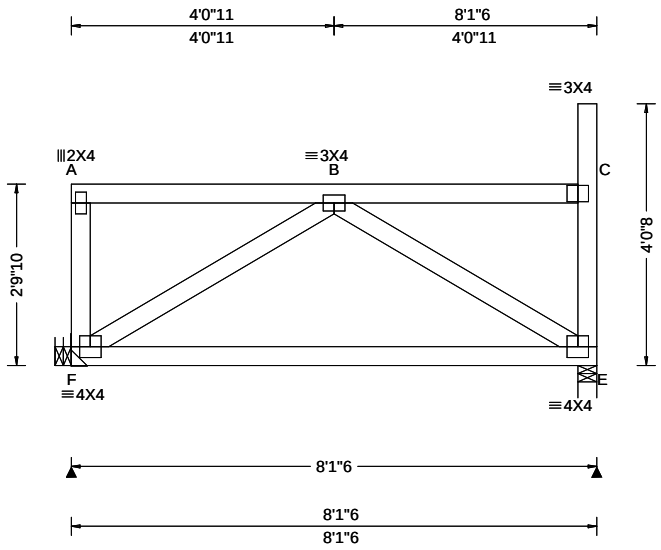
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34521 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T14	Cust: R 9316 JRef:1Xf393160008 T130 DrwNo: 118.22.1352.52044 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.004	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.217
Max BC CSI: 0.815
Max Web CSI: 0.203

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	487	/-	/-	/229	/44	/91
E	467	/-	/-	/214	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

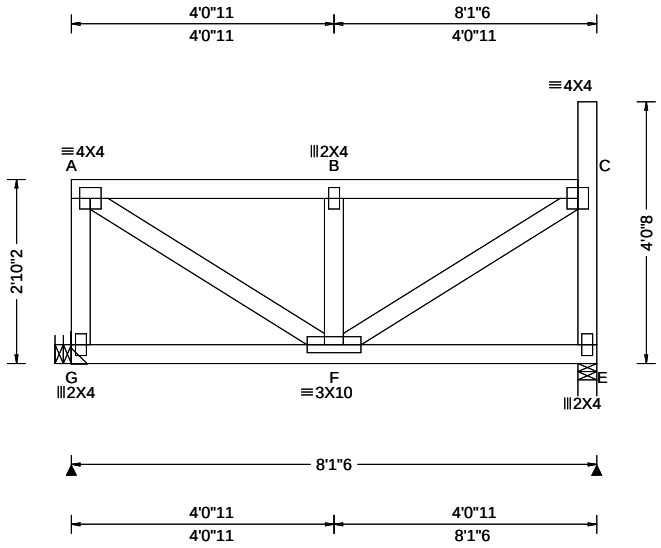
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34492 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T15	Cust: R 9316 JRef:1Xf393160008 T124 DrwNo: 118.22.1352.48879 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.012	B	999	360
VERT(CL): 0.020	B	999	240
HORZ(LL): -0.002	C	-	-
HORZ(TL): 0.004	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.240
Max BC CSI: 0.306
Max Web CSI: 0.178

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	713	/-	/-	/-	/165	/-
E	569	/-	/-	/-	/108	/-

Wind reactions based on MWFRS
G Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	132	-625	B - C	132	-629

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	87	-502	F - C	698	-148
A - F	725	-153	C - E	87	-484

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 7.82
BC: From 25 plf at 0.00 to 25 plf at 8.11
BC: 133 lb Conc. Load at 0.27, 2.05, 4.05, 6.05

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

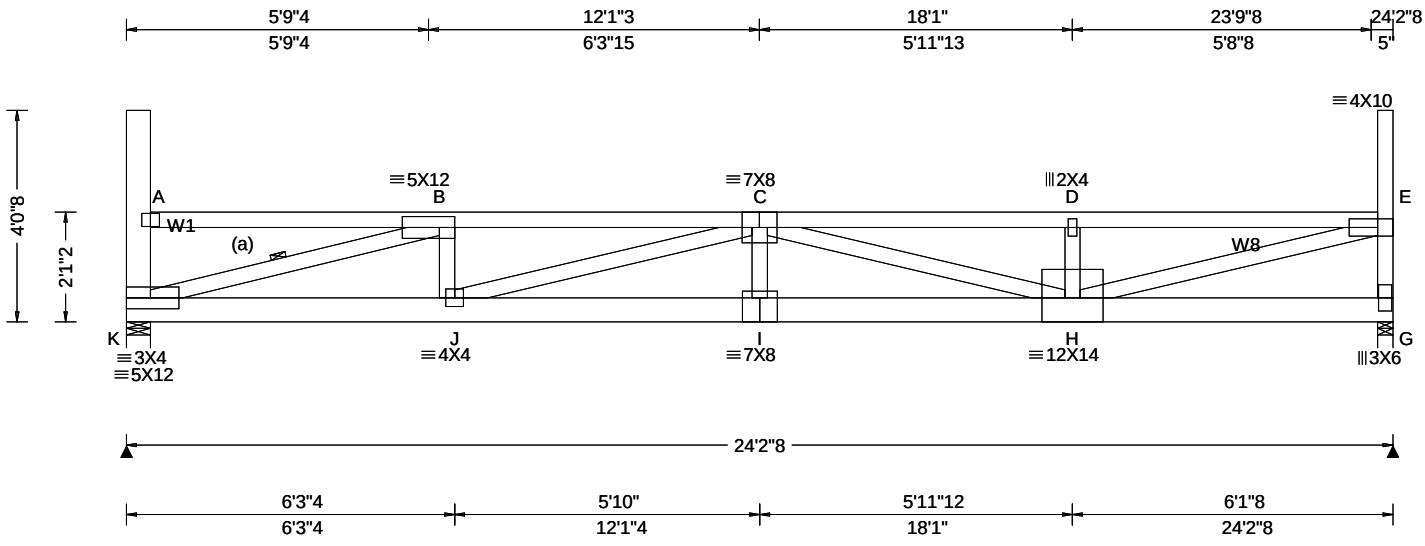
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34431 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T17	Cust: R 9316 JRef:1Xf393160008 T127 DrwNo: 118.22.1415.54180 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.376	I	773	360
VERT(CL): 0.644	I	451	240
HORZ(LL): 0.056	A	-	-
HORZ(TL): 0.096	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.909
Max BC CSI: 0.656
Max Web CSI: 0.857

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1420	/-	/-	/610	/77	/126
G	1432	/-	/-	/616	/79	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.2 (Truss)
G Brg Wid = 3.5 Min Req = 2.2 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	238	- 3991	D - E	233	- 3969
C - D	233	- 3964			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3883	- 364	I - H	5202	- 305
J - I	5202	- 305			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	240	- 3951	C - H	139	- 1288
B - J	648	0	H - E	3997	- 251
J - C	147	- 1262	E - G	91	- 1273

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;
W8 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.95	33.87	4.20
23.92	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

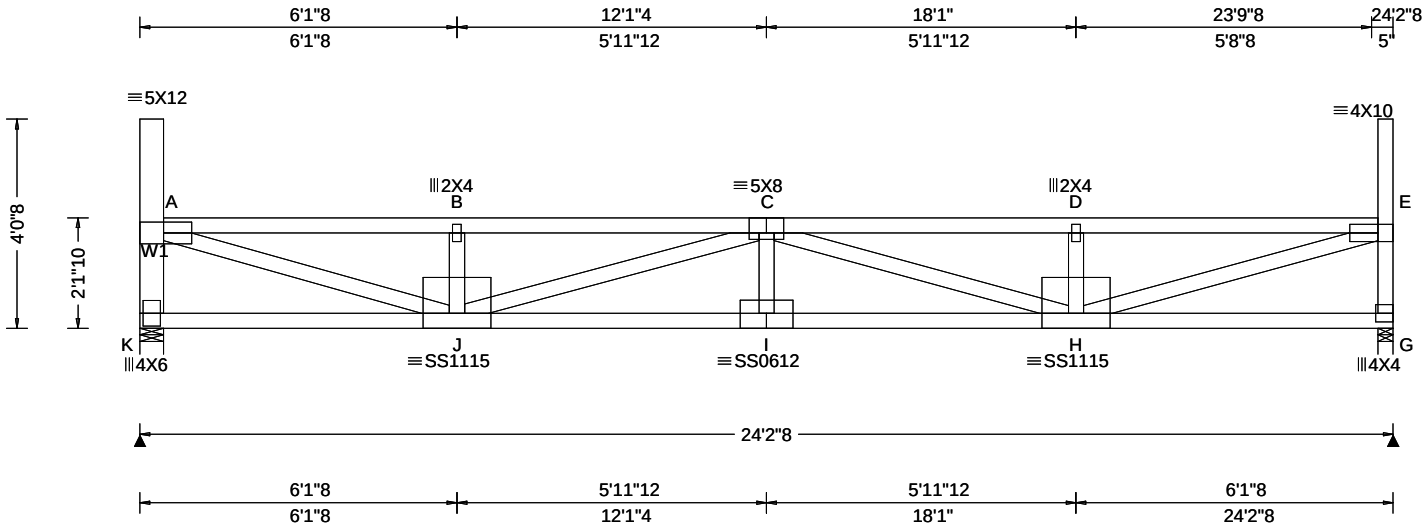
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34432 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T18	Cust: R 9316 JRef:1Xf393160008 T125 DrwNo: 118.22.1352.50211 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.390 I	745	360
VERT(CL):	0.668 I	434	240
HORZ(LL):	0.059 A	-	-
HORZ(TL):	0.101 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.873
Max BC CSI: 0.653
Max Web CSI: 0.937

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1421	/-	/-	/610	/78	/127
G	1432	/-	/-	/616	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	233	- 3773	C - D	224	- 3779
B - C	232	- 3768	D - E	225	- 3784

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	4893	- 299	I - H	4893	- 299

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	91	- 1275	C - H	135	- 1166
A - J	3744	- 240	H - E	3820	- 239
J - C	139	- 1176	E - G	93	- 1295

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.91	32.49	4.38
23.92	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.39" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

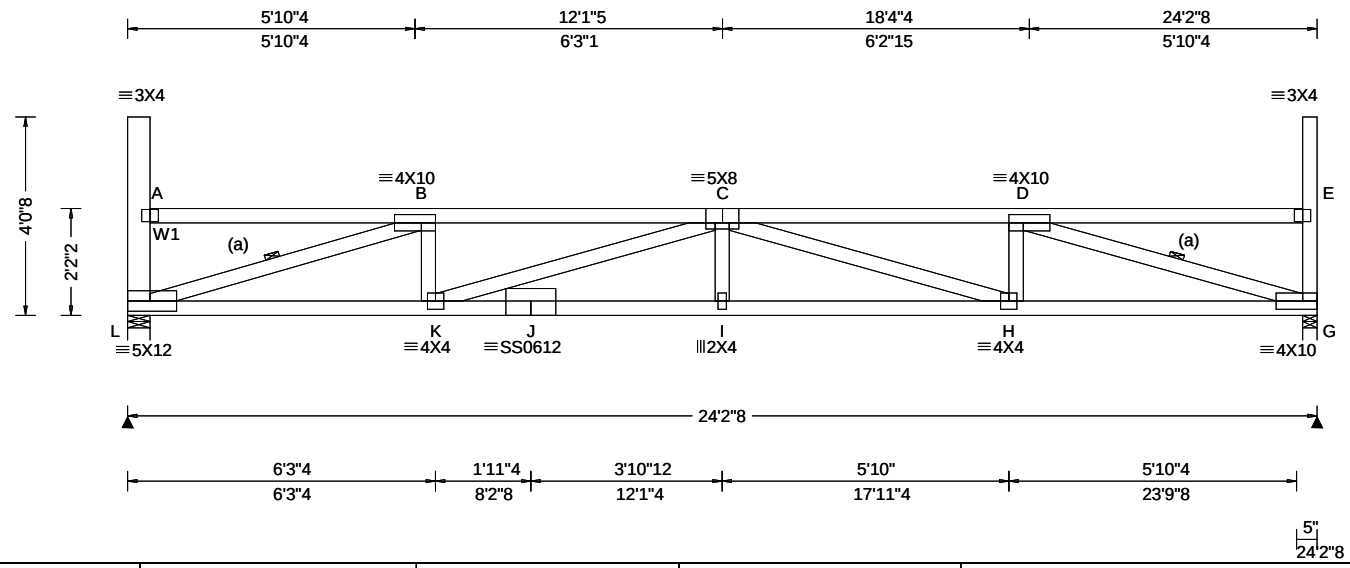
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34433 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T19	Cust: R 9316 JRef:1Xf393160008 T115 DrwNo: 118.22.1352.50431 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.356 I	815	360
VERT(CL):	0.610 I	476	240
HORZ(LL):	0.075 G	-	-
HORZ(TL):	0.129 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.629
Max BC CSI: 0.622
Max Web CSI: 0.787

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/610	/78	/126
G	1432	/-	/-	/616	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	225	- 3716	C - D	216	- 3726

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3614	- 353	I - H	4787	- 296
K - J	4787	- 296	H - G	3622	- 197
J - I	4787	- 296			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	228	- 3698	C - H	135	- 1116
B - K	667	- 2	H - D	678	- 1
K - C	136	- 1126	D - G	226	- 3746

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.36" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

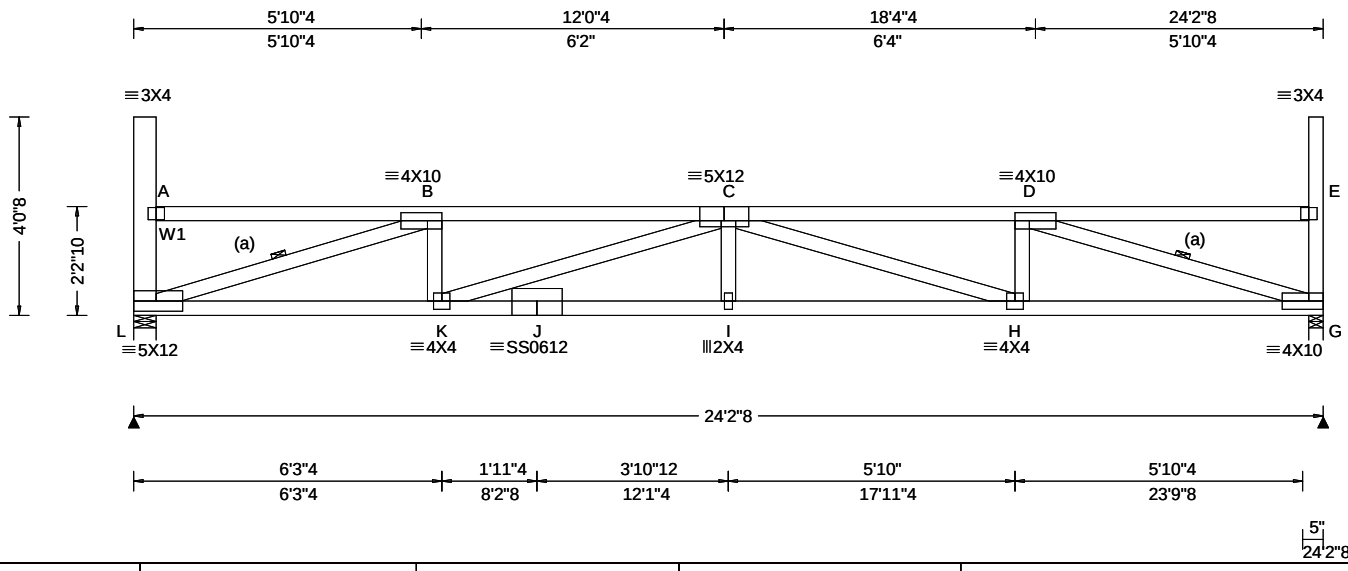
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34434 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T20	Cust: R 9316 JRef:1Xf393160008 T116 DrwNo: 118.22.1352.50188 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.342 I	850	360
VERT(CL):	0.586 I	496	240
HORZ(LL):	0.074 G	-	-
HORZ(TL):	0.126 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.609
Max BC CSI: 0.610
Max Web CSI: 0.774

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/610	/78	/124
G	1432	/-	/-	/616	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	221	- 3638	C - D	212	- 3648

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3539	- 347	I - H	4686	- 292
K - J	4686	- 292	H - G	3546	- 194
J - I	4686	- 292			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	224	- 3629	C - H	132	- 1093
B - K	667	- 1	H - D	679	- 1
K - C	133	- 1104	D - G	222	- 3676

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.82	29.72	4.79
23.92	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

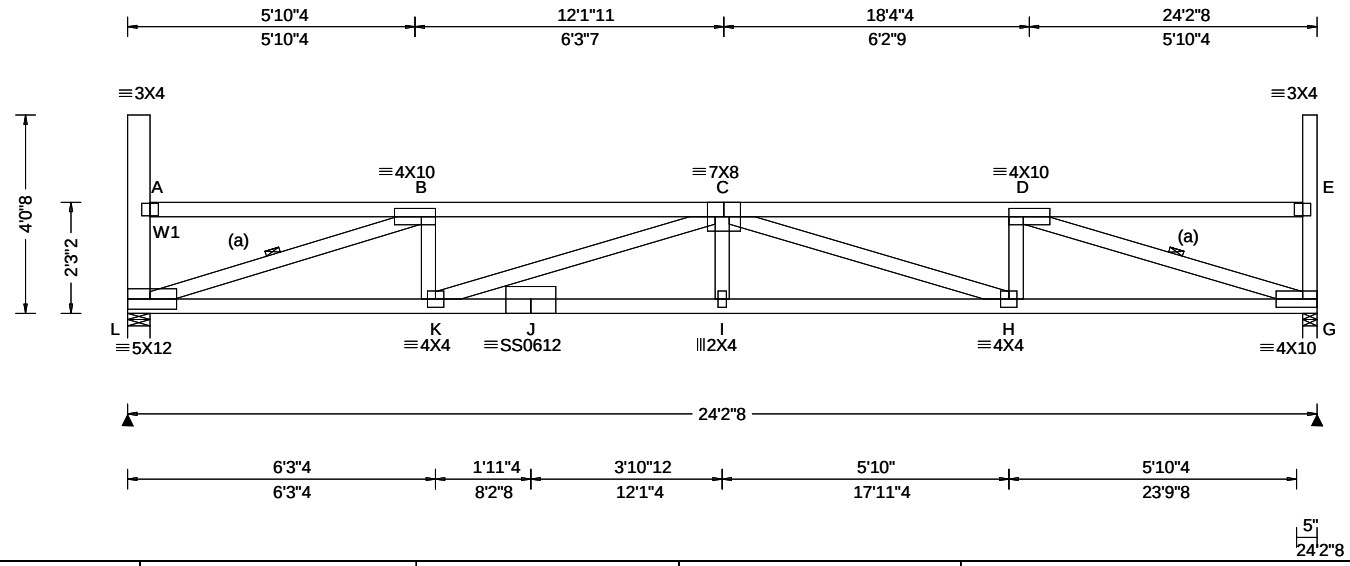
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34435 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T21	Cust: R 9316 JRef:1Xf393160008 T117 DrwNo: 118.22.1352.50577 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.328 I	886	360
VERT(CL):	0.562 I	517	240
HORZ(LL):	0.072 G	-	-
HORZ(TL):	0.123 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.590
Max BC CSI: 0.600
Max Web CSI: 0.761

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1419	/-	/-	/609	/78	/123
G	1431	/-	/-	/615	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	199	- 3560	C - D	187	- 3569

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3462	- 340	I - H	4581	- 286
K - J	4581	- 286	H - G	3470	- 182
J - I	4581	- 286			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	219	- 3559	C - H	128	- 1068
B - K	666	- 1	H - D	677	0
K - C	129	- 1078	D - G	217	- 3604

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

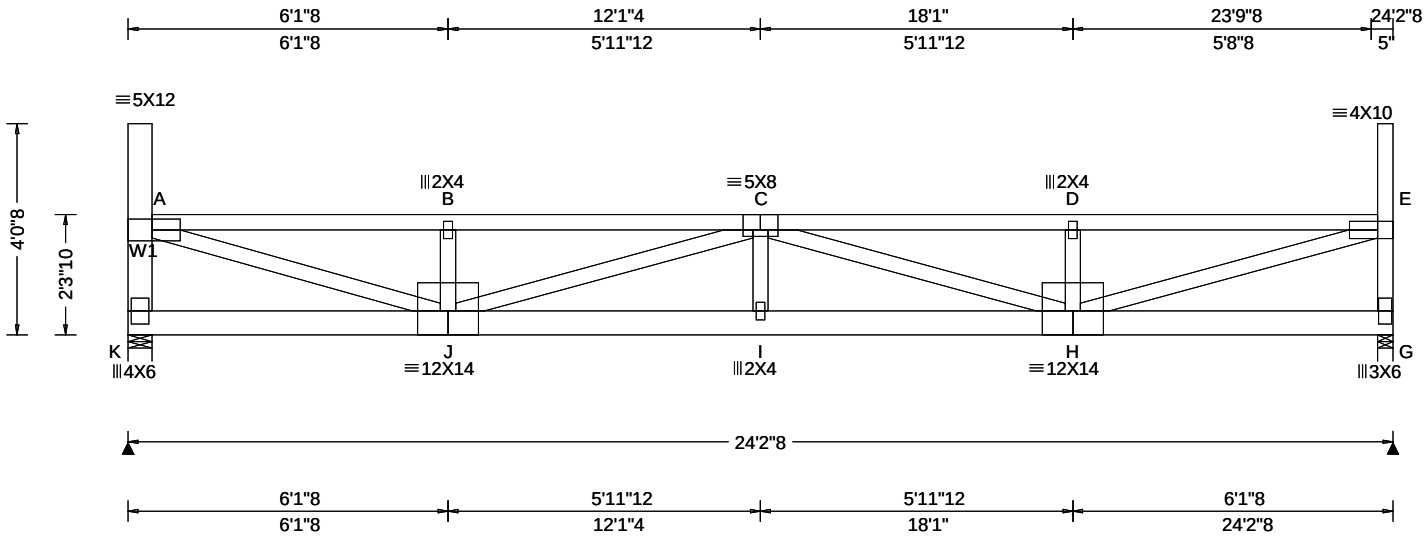
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34436 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T22	Cust: R 9316 JRef:1Xf393160008 T118 DrwNo: 118.22.1352.50991 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.324 I	896	360
VERT(CL):	0.555 I	523	240
HORZ(LL):	0.051 A	-	-
HORZ(TL):	0.088 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.835
Max BC CSI: 0.587
Max Web CSI: 0.885

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1421	/-	/-	/609	/78	/119
G	1432	/-	/-	/615	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.2 (Truss)
G Brg Wid = 3.5 Min Req = 2.2 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	205	- 3549	C - D	192	- 3550
B - C	204	- 3544	D - E	193	- 3555

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	4663	- 275	I - H	4663	- 275

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	90	- 1258	C - H	114	- 1169
A - J	3543	- 219	H - E	3608	- 220
J - C	119	- 1176	E - G	93	- 1276

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.74	26.95	5.28
23.92	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

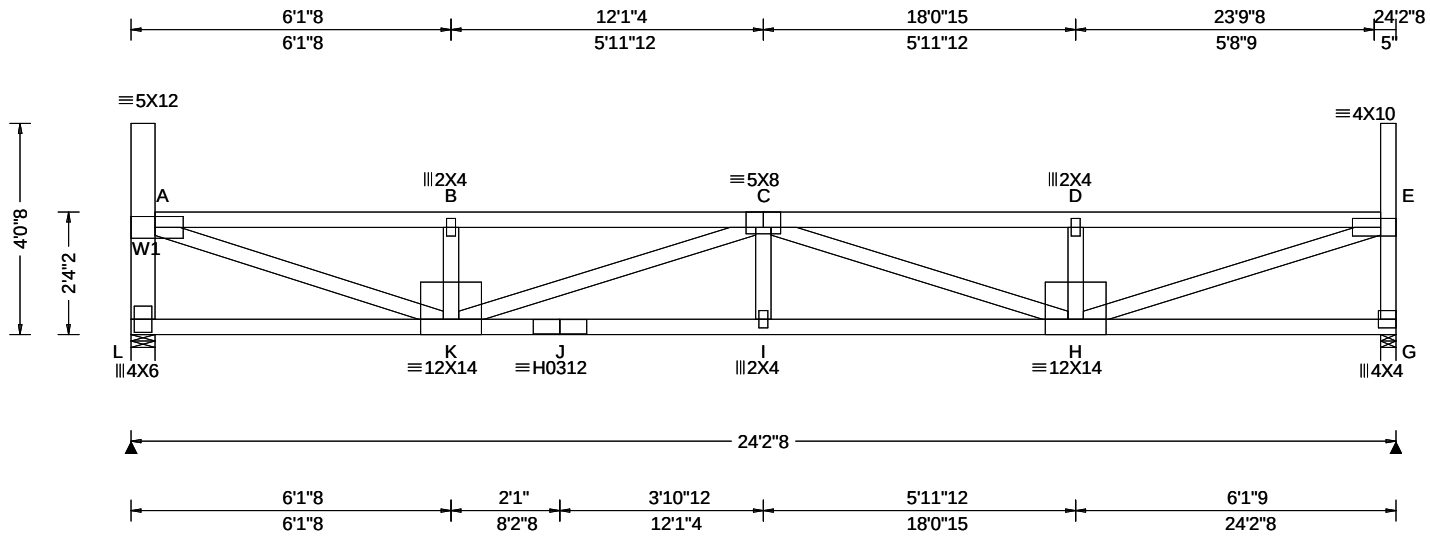
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34437 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T23	Cust: R 9316 JRef:1Xf393160008 T119 DrwNo: 118.22.1352.52090 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.318 I	912	360
VERT(CL):	0.545 I	532	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.092 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.807
Max BC CSI: 0.585
Max Web CSI: 0.853

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/609	/78	/120
G	1432	/-	/-	/615	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	198	-3403	C - D	184	-3407
B - C	198	-3398	D - E	185	-3412

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4405	-268	I - H	4405	-268
J - I	4405	-268			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	92	-1278	D - H	76	-377
A - K	3408	-213	H - E	3476	-212
K - C	114	-1064	E - G	94	-1297
C - H	111	-1055			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.70	25.57	5.57
23.92	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

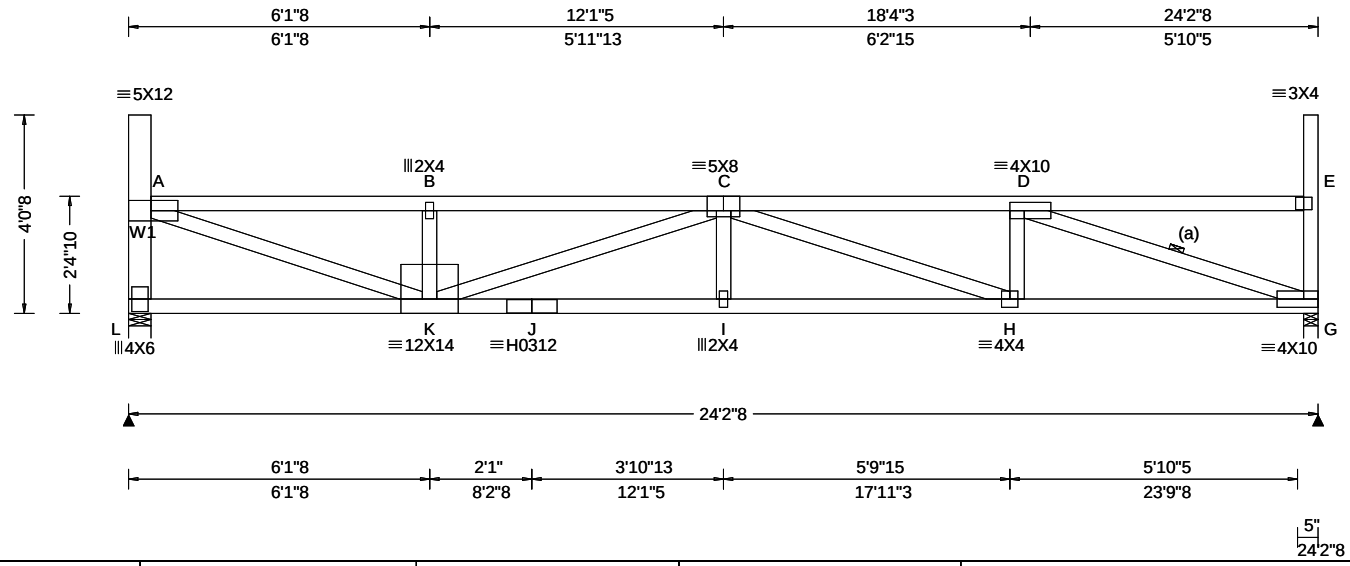
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34438 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T24	Cust: R 9316 JRef:1Xf393160008 T120 DrwNo: 118.22.1352.51547 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.299 I	972	360
VERT(CL):	0.512 I	567	240
HORZ(LL):	0.054 G	-	-
HORZ(TL):	0.092 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.764
Max BC CSI: 0.579
Max Web CSI: 0.822

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/609	/78	/119
G	1432	/-	/-	/615	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	195	- 3337	C - D	177	- 3365
B - C	194	- 3332			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4318	- 265	I - H	4318	- 265
J - I	4318	- 265	H - G	3272	- 176

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1279	C - H	111	- 1012
A - K	3348	- 209	H - D	677	0
K - C	112	- 1044	D - G	207	- 3421

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

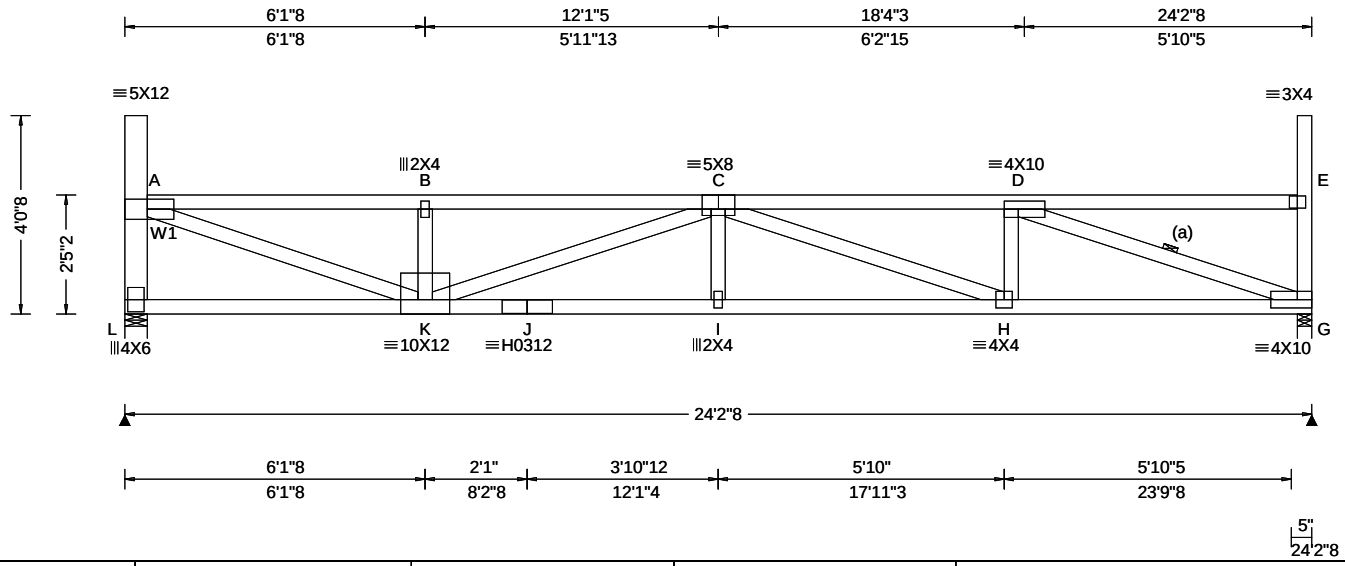
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34439 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T25	Cust: R 9316 JRef:1Xf393160008 T121 DrwNo: 118.22.1352.49721 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.288 I	999	360
VERT(CL):	0.493 I	589	240
HORZ(LL):	0.053 G	-	-
HORZ(TL):	0.090 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.729
Max BC CSI: 0.570
Max Web CSI: 0.807

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/609	/78	/118
G	1432	/-	/-	/615	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	191	- 3273	C - D	174	- 3301
B - C	191	- 3268			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4234	- 262	I - H	4234	- 262
J - I	4234	- 262	H - G	3209	- 174

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1279	C - H	109	- 993
A - K	3290	- 205	H - D	676	0
B - K	76	- 376	D - G	204	- 3363
K - C	109	- 1025			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.61	22.80	5.50
23.92	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

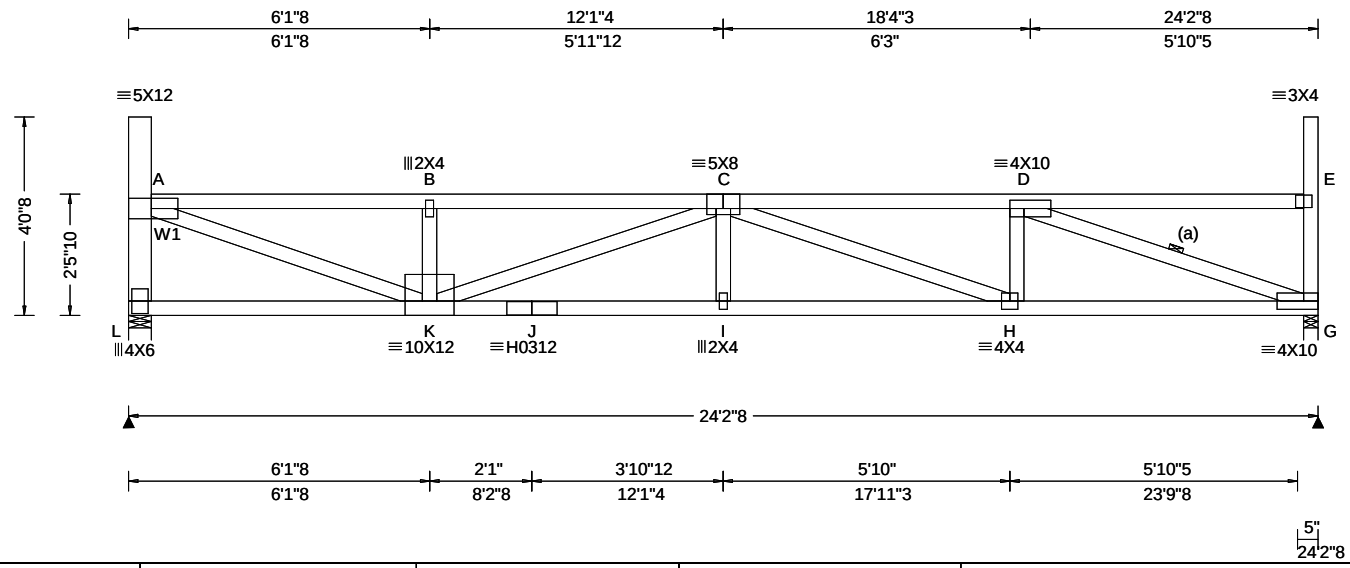
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34440 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T26	Cust: R 9316 JRef:1Xf393160008 T106 DrwNo: 118.22.1352.51510 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.278 I	999	360
VERT(CL):	0.476 I	610	240
HORZ(LL):	0.052 G	-	-
HORZ(TL):	0.089 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.696
Max BC CSI: 0.562
Max Web CSI: 0.794

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/609	/78	/116
G	1432	/-	/-	/615	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	189	- 3213	C - D	171	- 3240
B - C	188	- 3208			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4155	- 259	I - H	4155	- 259
J - I	4155	- 259	H - G	3150	- 172

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1280	C - H	107	- 977
A - K	3236	- 202	H - D	677	0
B - K	77	- 378	D - G	201	- 3308
K - C	107	- 1008			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

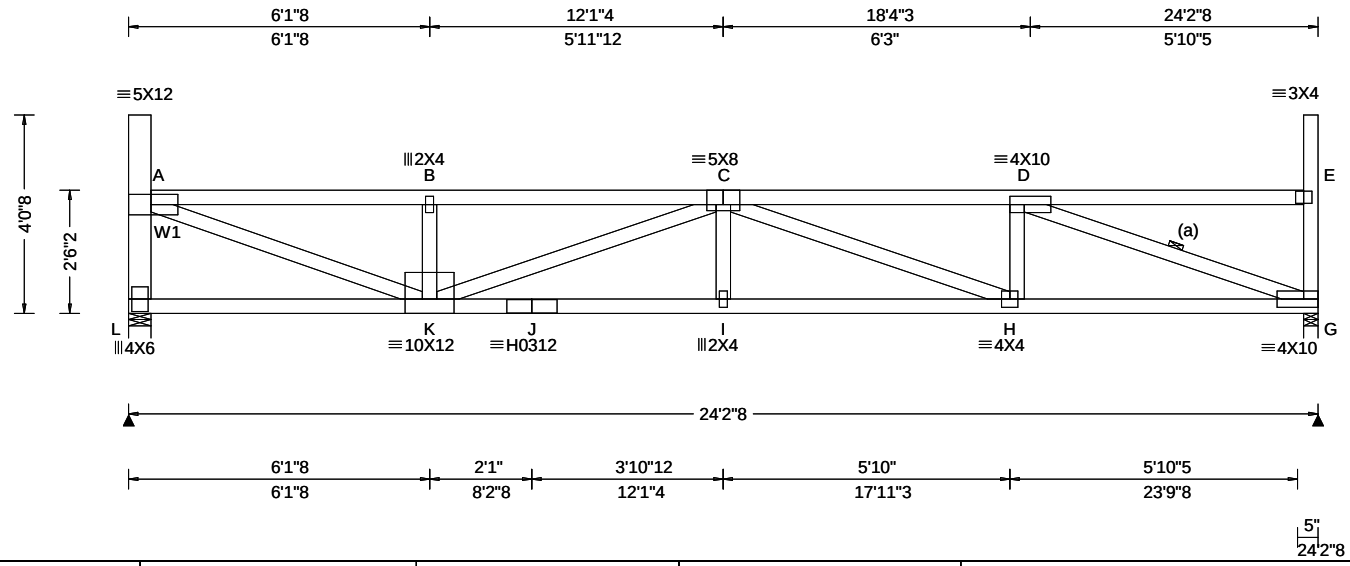
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34441 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T27	Cust: R 9316 JRef:1Xf393160008 T105 DrwNo: 118.22.1352.50925 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.268 I	999	360
VERT(CL):	0.459 I	632	240
HORZ(LL):	0.051 G	-	-
HORZ(TL):	0.087 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.665
Max BC CSI: 0.557
Max Web CSI: 0.781

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/608	/79	/115
G	1432	/-	/-	/615	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	186	- 3154	C - D	168	- 3180
B - C	185	- 3149			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4077	- 255	I - H	4077	- 255
J - I	4077	- 255	H - G	3092	- 170

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1280	C - H	104	- 960
A - K	3183	- 198	H - D	677	0
B - K	77	- 379	D - G	198	- 3255
K - C	105	- 990			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

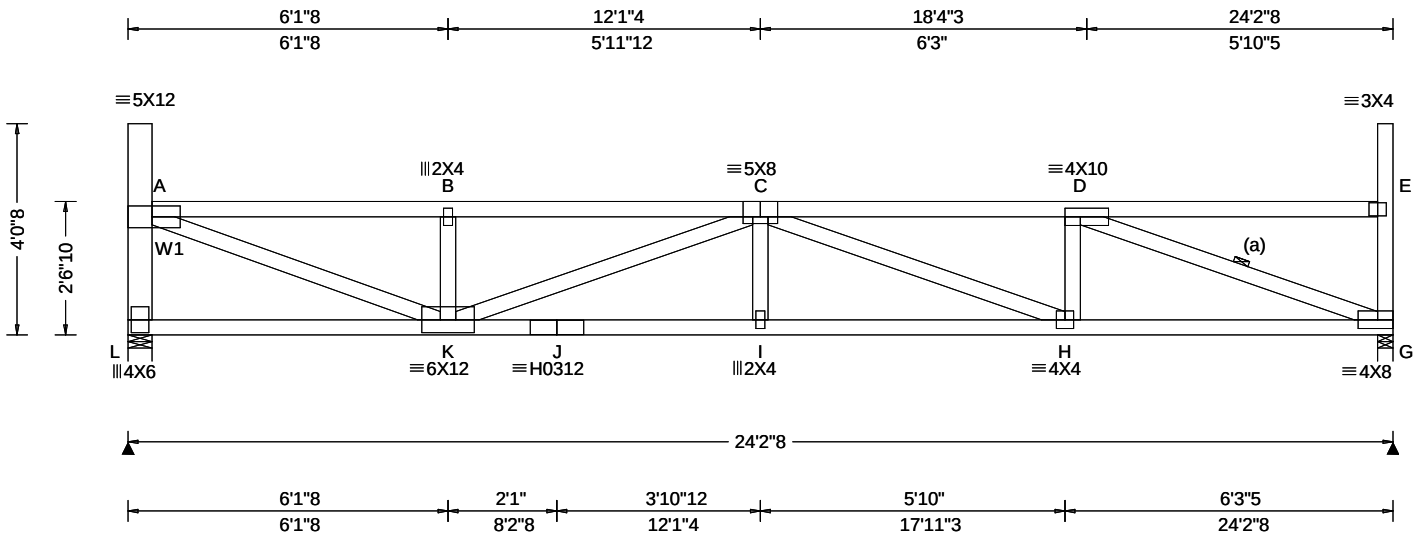
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34442 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T28	Cust: R 9316 JRef:1Xf393160008 T107 DrwNo: 118.22.1352.49680 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.259	I	999	360
VERT(CL): 0.443	I	655	240
HORZ(LL): 0.050	G	-	-
HORZ(TL): 0.086	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.637
Max BC CSI: 0.551
Max Web CSI: 0.768

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/608	/79	/113
G	1432	/-	/-	/615	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	183	- 3097	C - D	165	- 3123
B - C	182	- 3092			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4003	- 252	I - H	4003	- 252
J - I	4003	- 252	H - G	3036	- 168

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1280	C - H	102	- 944
A - K	3131	- 195	H - D	677	0
B - K	77	- 381	D - G	195	- 3204
K - C	102	- 974			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

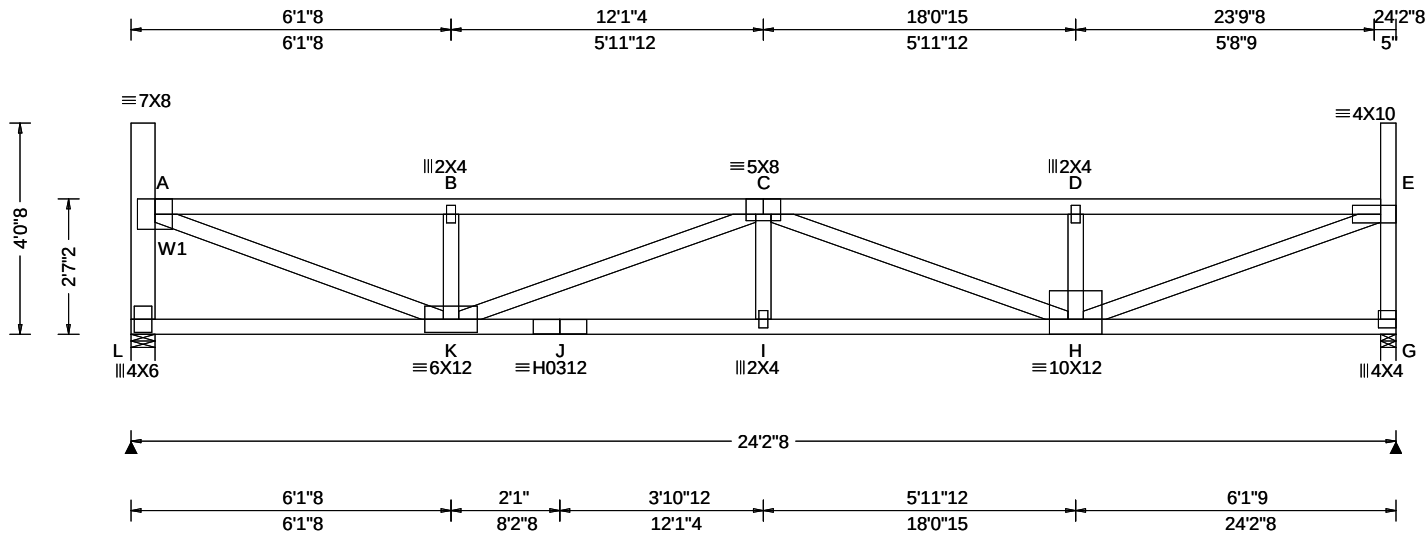
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34443 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T29	Cust: R 9316 JRef:1Xf393160008 T111 DrwNo: 118.22.1352.50625 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.256 I	999	360
VERT(CL):	0.439 I	661	240
HORZ(LL):	0.049 A	-	-
HORZ(TL):	0.083 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.645
Max BC CSI: 0.540
Max Web CSI: 0.771

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/608	/79	/112
G	1432	/-	/-	/614	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	180	- 3042	C - D	165	- 3045
B - C	180	- 3037	D - E	166	- 3050

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3931	- 248	I - H	3931	- 248
J - I	3931	- 248			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	- 1280	C - H	97	- 949
A - K	3082	- 192	D - H	77	- 388
B - K	77	- 384	H - E	3144	- 191
K - C	99	- 958	E - G	95	- 1299

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.45	17.27	4.16
23.92	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

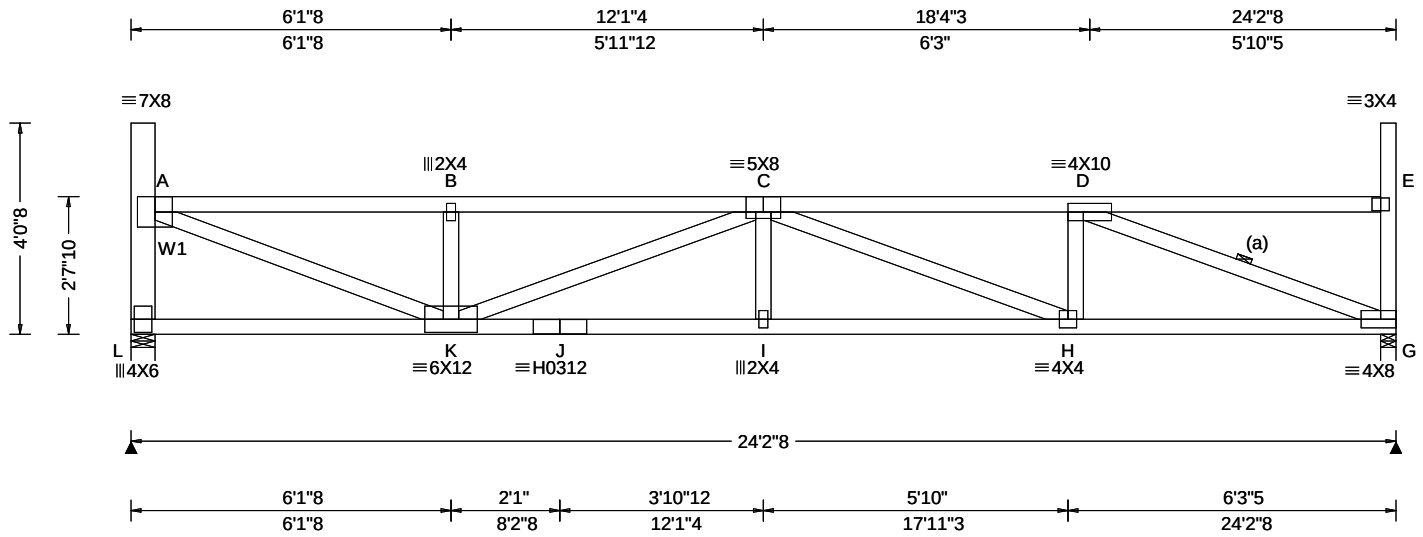
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34444 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T30	Cust: R 9316 JRef:1Xf393160008 T122 DrwNo: 118.22.1352.48938 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.242	I	999	360
VERT(CL): 0.414	I	700	240
HORZ(LL): 0.048	G	-	-
HORZ(TL): 0.083	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.605
Max BC CSI: 0.541
Max Web CSI: 0.745

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/608	/79	/111
G	1432	/-	/-	/614	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	178	- 2989	C - D	159	- 3014
B - C	177	- 2985			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3862	- 246	I - H	3862	- 246
J - I	3862	- 246	H - G	2930	- 164

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	- 1281	C - H	98	- 915
A - K	3035	- 188	H - D	677	0
B - K	77	- 384	D - G	189	- 3107
K - C	98	- 943			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.17". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

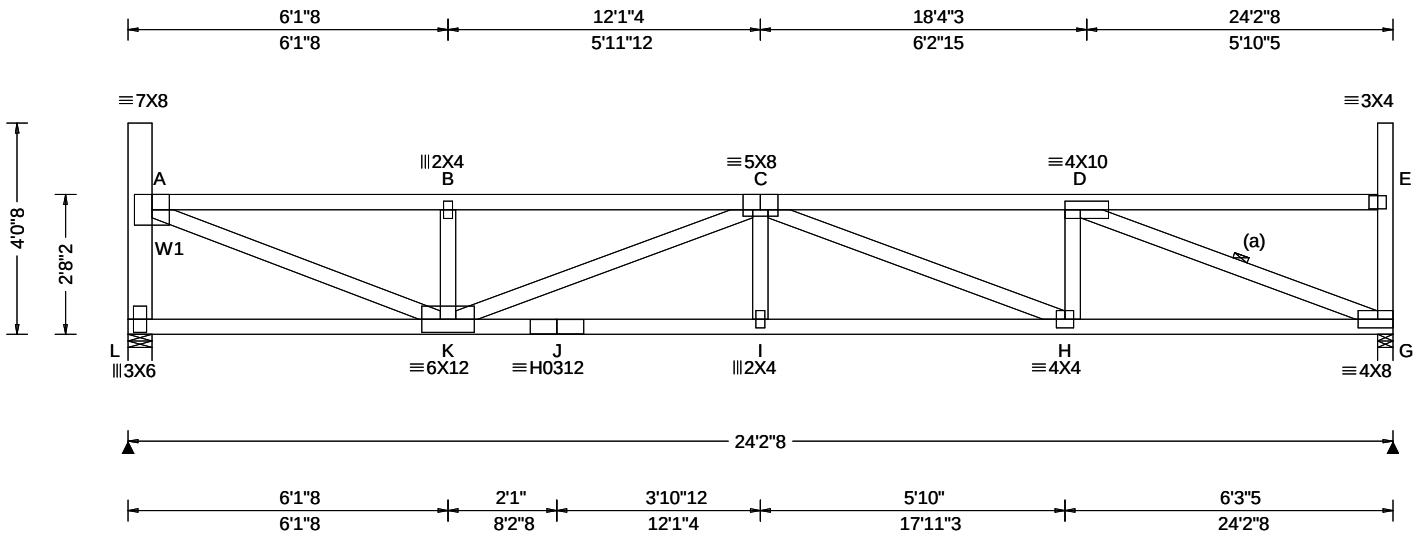
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34445 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T31	Cust: R 9316 JRef:1Xf393160008 T129 DrwNo: 118.22.1352.52054 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.234	I	999	360
VERT(CL): 0.401	I	724	240
HORZ(LL): 0.047	G	-	-
HORZ(TL): 0.081	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.595
Max BC CSI: 0.536
Max Web CSI: 0.733

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/608	/79	/109
G	1432	/-	/-	/614	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	175	- 2938	C - D	156	- 2962
B - C	174	- 2933			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3795	- 242	I - H	3795	- 242
J - I	3795	- 242	H - G	2880	- 162

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	- 1281	C - H	96	- 900
A - K	2989	- 185	H - D	677	0
B - K	77	- 385	D - G	186	- 3061
K - C	96	- 928			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.36	14.50	3.50
23.92	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.17". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

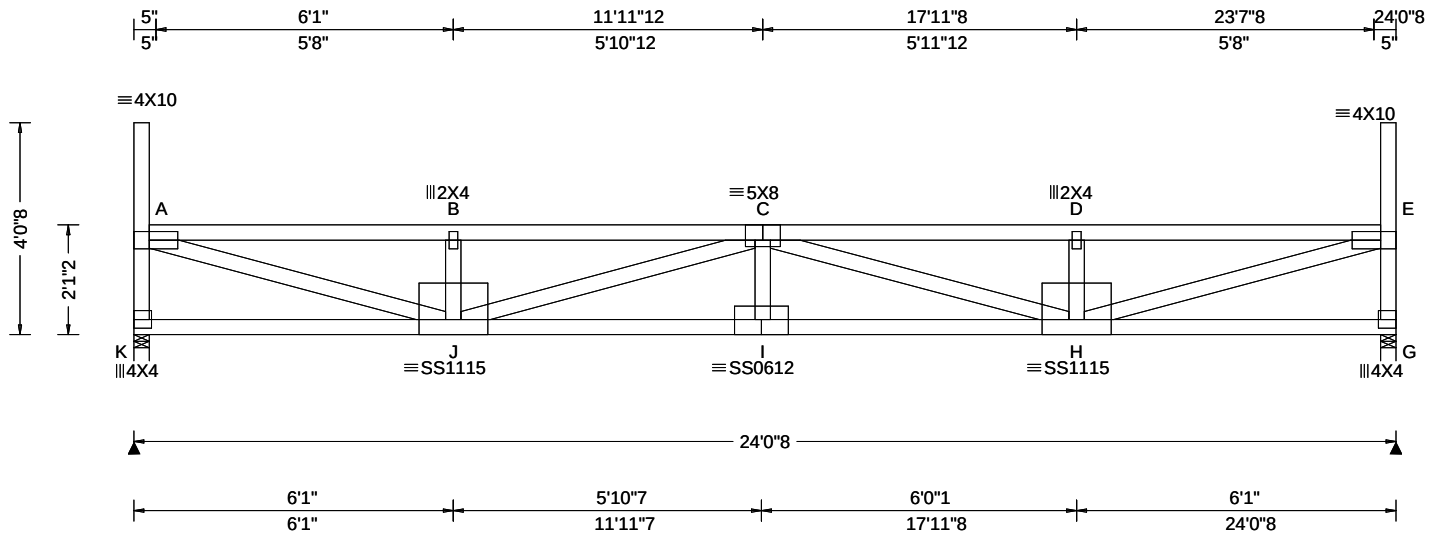
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34446 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T33	Cust: R 9316 JRef:1Xf393160008 T166 DrwNo: 118.22.1352.50707 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.398	I	725	360
VERT(CL): 0.682	I	423	240
HORZ(LL): 0.059	A	-	-
HORZ(TL): 0.100	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.868
Max BC CSI: 0.652
Max Web CSI: 0.944

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1421	/-	/-	/612	/80	/138
G	1421	/-	/-	/612	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	239	- 3812	C - D	238	- 3811
B - C	238	- 3807	D - E	239	- 3816

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	4930	- 302	I - H	4930	- 302

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	94	- 1285	C - H	138	- 1169
A - J	3844	- 242	H - E	3849	- 244
J - C	142	- 1174	E - G	94	- 1285

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.95	33.87	4.20
23.75	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.40" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

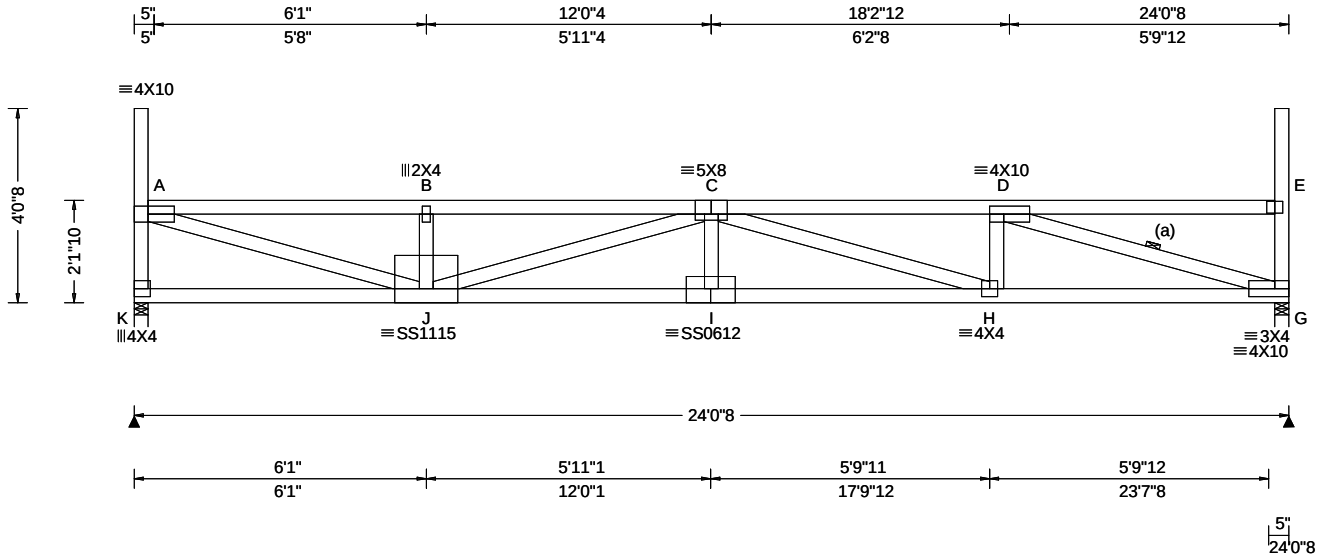
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34447 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T34	Cust: R 9316 JRef:1Xf393160008 T154 DrwNo: 118.22.1352.50313 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.371 I	776	360
VERT(CL):	0.637 I	453	240
HORZ(LL):	0.059 G	-	-
HORZ(TL):	0.102 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.854
Max BC CSI: 0.639
Max Web CSI: 0.925

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1422	/-	/-	/612	/80	/137
G	1422	/-	/-	/612	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	234	- 3732	C - D	231	- 3757
B - C	233	- 3727			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	4822	- 298	H - G	3652	- 199
I - H	4822	- 298			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	94	- 1286	C - H	138	- 1118
A - J	3770	- 236	H - D	672	- 1
J - C	140	- 1147	D - G	231	- 3771

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.37" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

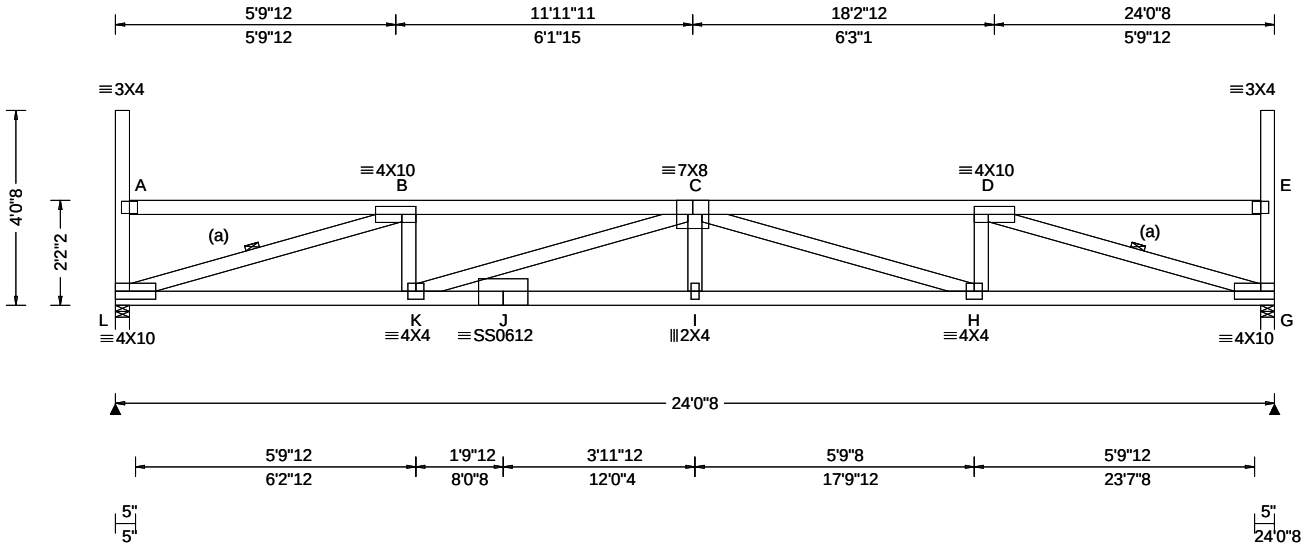
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34448 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T35	Cust: R 9316 JRef:1Xf393160008 T156 DrwNo: 118.22.1352.50376 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.346 I	832	360
VERT(CL):	0.594 I	486	240
HORZ(LL):	0.074 G	-	-
HORZ(TL):	0.126 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.608
Max BC CSI: 0.612
Max Web CSI: 0.770

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/612	/80	/135
G	1420	/-	/-	/612	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	225	-3672	C - D	225	-3671

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3569	-350	I - H	4710	-291
K - J	4710	-291	H - G	3568	-194
J - I	4710	-291			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	225	-3694	C - H	134	-1093
B - K	673	-1	H - D	672	-1
K - C	135	-1092	D - G	225	-3693

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.35" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

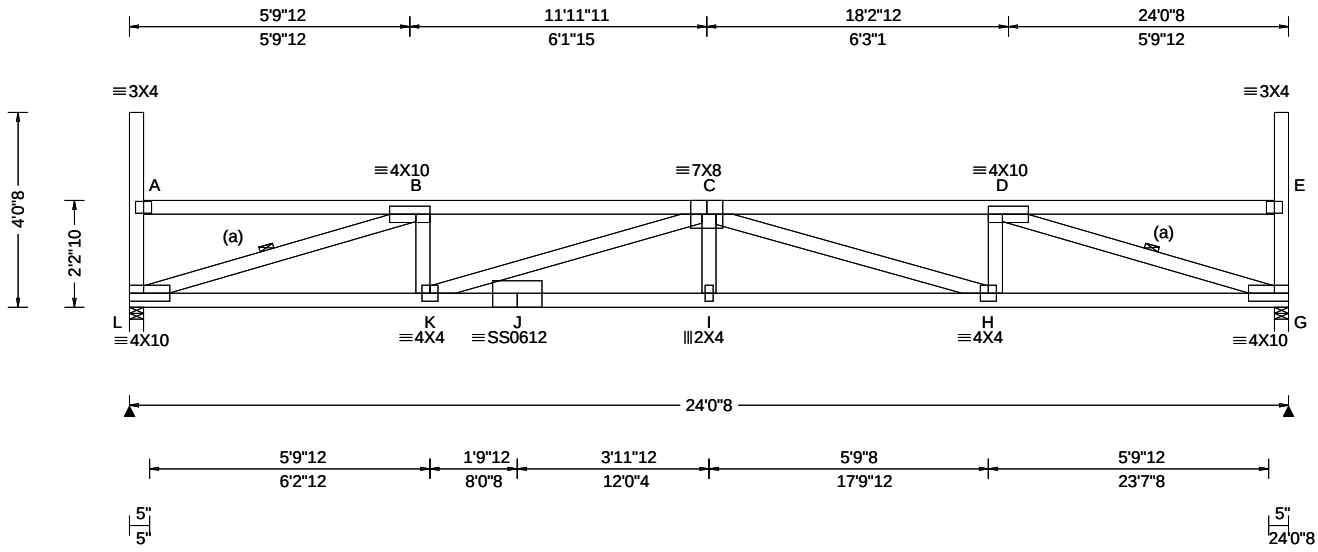
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34449 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T36	Cust: R 9316 JRef:1Xf393160008 T152 DrwNo: 118.22.1352.51466 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.332 I	868	360
VERT(CL):	0.570 I	506	240
HORZ(LL):	0.072 G	-	-
HORZ(TL):	0.123 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.588
Max BC CSI: 0.603
Max Web CSI: 0.757

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/612	/80	/134
G	1420	/-	/-	/612	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	221	-3595	C - D	221	-3594

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3494	-344	I - H	4610	-287
K - J	4610	-287	H - G	3493	-192
J - I	4610	-287			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	221	-3624	C - H	131	-1071
B - K	673	-1	H - D	672	-1
K - C	132	-1070	D - G	221	-3623

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.82	29.72	4.79
23.75	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.33" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

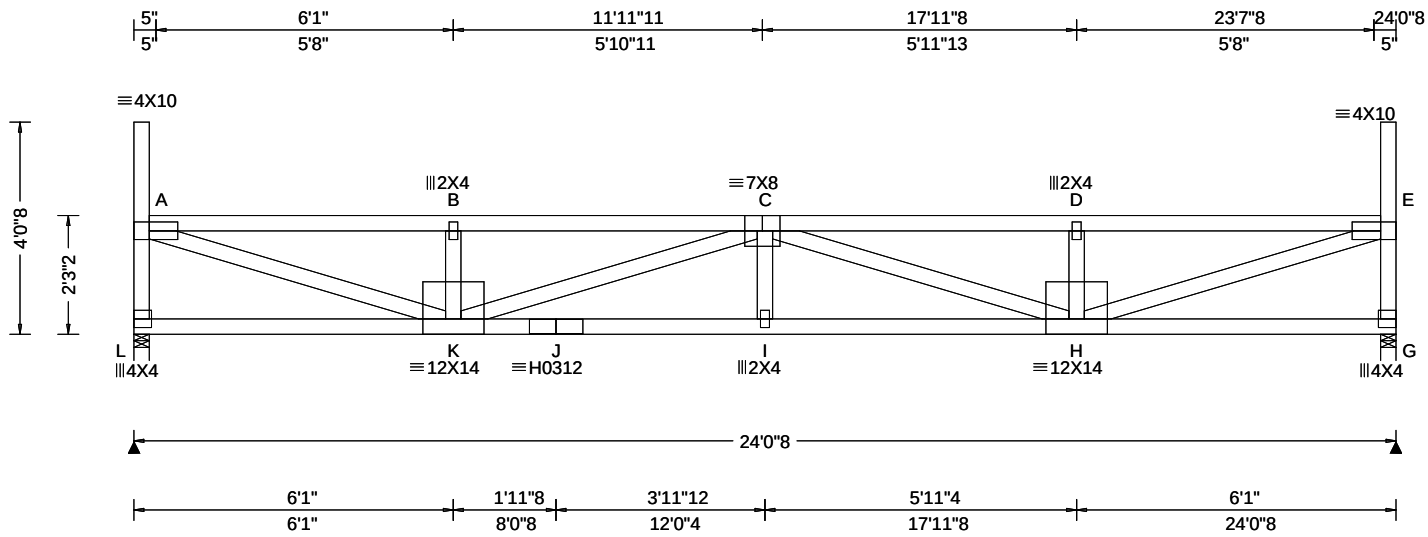
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34450 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T37	Cust: R 9316 JRef:1Xf393160008 T160 DrwNo: 118.22.1352.52134 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.336 I	858	360
VERT(CL):	0.576 I	500	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.093 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.812
Max BC CSI: 0.594
Max Web CSI: 0.872

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/612	/80	/133
G	1420	/-	/-	/612	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	199	-3499	C - D	198	-3493
B - C	198	-3494	D - E	198	-3498

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4514	-281	I - H	4514	-281
J - I	4514	-281			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	-1286	C - H	123	-1076
A - K	3554	-220	H - E	3553	-221
K - C	127	-1075	E - G	94	-1286

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.78	28.34	5.03
23.75	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

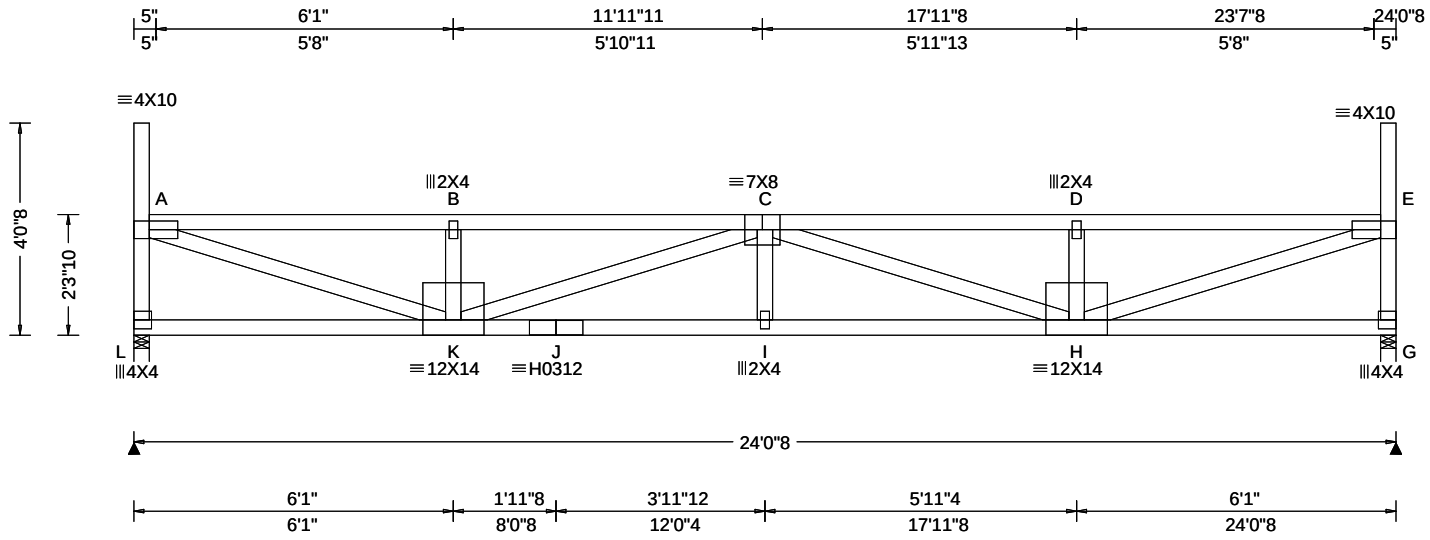
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34451 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T38	Cust: R 9316 JRef:1Xf393160008 T162 DrwNo: 118.22.1352.51223 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.323 I	893	360
VERT(CL):	0.554 I	521	240
HORZ(LL):	0.053 A	-	-
HORZ(TL):	0.091 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.799
Max BC CSI: 0.585
Max Web CSI: 0.856

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/612	/80	/132
G	1420	/-	/-	/612	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	195	- 3429	C - D	194	- 3423
B - C	194	- 3423	D - E	195	- 3428

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4422	- 275	I - H	4422	- 275
J - I	4422	- 275			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	- 1287	C - H	112	- 1055
A - K	3488	- 216	H - E	3487	- 217
K - C	115	- 1054	E - G	94	- 1286

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.74	26.95	5.28
23.75	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

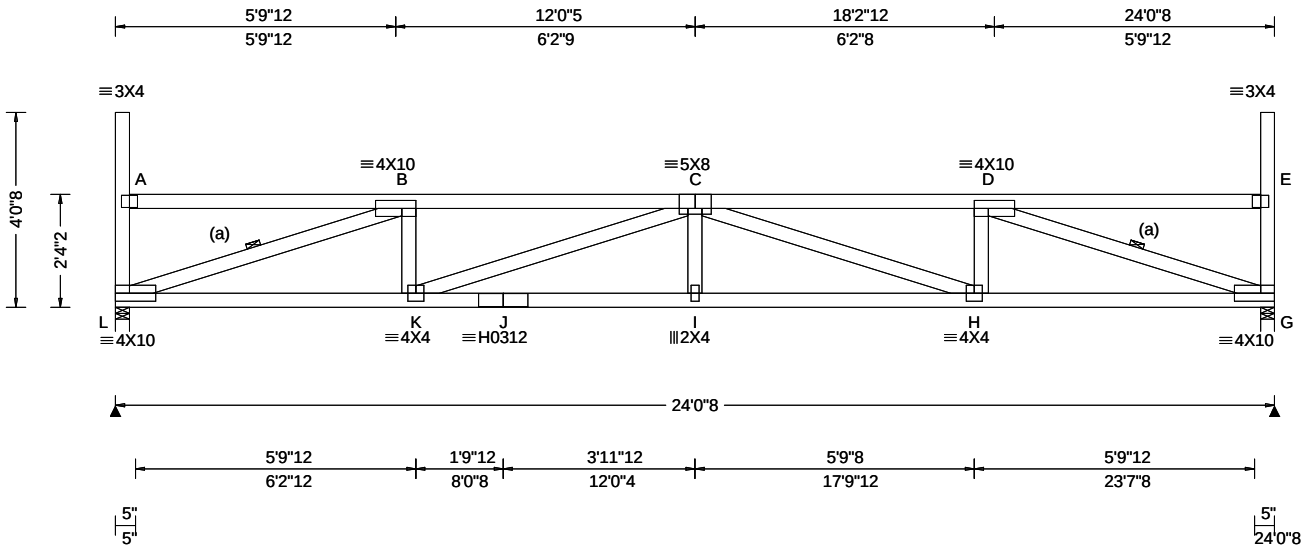
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34452 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T39	Cust: R 9316 JRef:1Xf393160008 T158 DrwNo: 118.22.1352.51424 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.296	I	975	360
VERT(CL): 0.507	I	569	240
HORZ(LL): 0.068	G	-	-
HORZ(TL): 0.116	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.542
Max BC CSI: 0.578
Max Web CSI: 0.723

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/612	/81	/131
G	1422	/-	/-	/612	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	188	-3386	C - D	189	-3384

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3291	-308	I - H	4342	-276
K - J	4342	-276	H - G	3290	-187
J - I	4342	-276			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	212	-3436	C - H	115	-1016
B - K	674	0	H - D	674	0
K - C	116	-1015	D - G	211	-3435

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.70	25.57	5.57
23.75	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

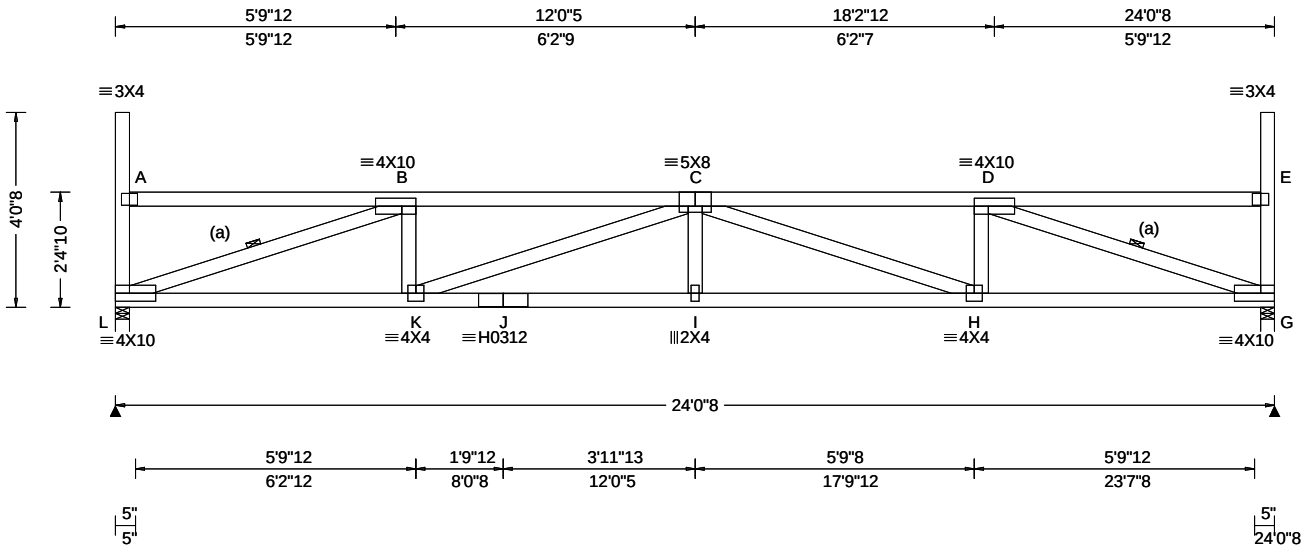
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34453 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T40	Cust: R 9316 JRef:1Xf393160008 T155 DrwNo: 118.22.1352.50169 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.285 I	999	360
VERT(CL):	0.488 I	590	240
HORZ(LL):	0.066 G	-	-
HORZ(TL):	0.114 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.529
Max BC CSI: 0.571
Max Web CSI: 0.713

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/612	/81	/129
G	1422	/-	/-	/612	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	185	-3320	C - D	185	-3319

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3227	-304	I - H	4257	-272
K - J	4257	-272	H - G	3226	-185
J - I	4257	-272			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	208	-3377	C - H	112	-998
B - K	674	0	H - D	674	0
K - C	114	-996	D - G	208	-3376

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

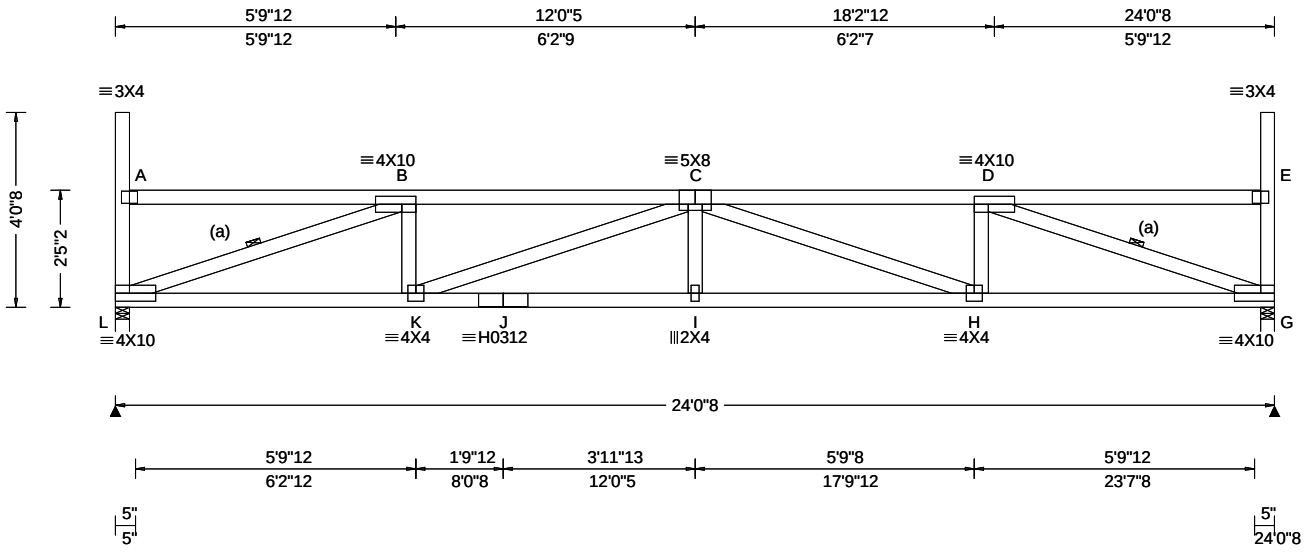
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34454 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T41	Cust: R 9316 JRef:1Xf393160008 T151 DrwNo: 118.22.1352.50626 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.275 I	999	360
VERT(CL):	0.471 I	612	240
HORZ(LL):	0.065 G	-	-
HORZ(TL):	0.112 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.516
Max BC CSI: 0.565
Max Web CSI: 0.703

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/81	/128
G	1422	/-	/-	/611	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	182	- 3257	C - D	182	- 3255

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3166	- 299	I - H	4175	- 268
K - J	4175	- 268	H - G	3164	- 184
J - I	4175	- 268			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	205	- 3320	C - H	110	- 980
B - K	674	0	H - D	674	0
K - C	111	- 979	D - G	205	- 3319

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

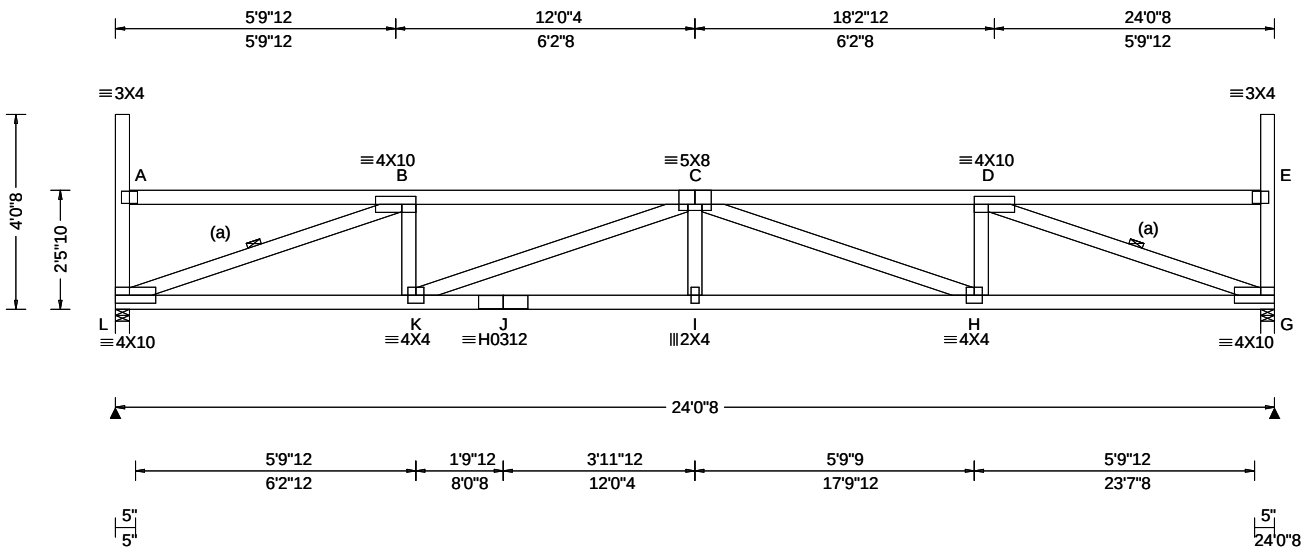
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34455 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T42	Cust: R 9316 JRef:1Xf393160008 T164 DrwNo: 118.22.1352.50826 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.265 I	999	360
VERT(CL):	0.454 I	635	240
HORZ(LL):	0.064 G	-	-
HORZ(TL):	0.110 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.510
Max BC CSI: 0.559
Max Web CSI: 0.693

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/81	/127
G	1422	/-	/-	/611	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	179	-3196	C - D	179	-3195

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3106	-294	I - H	4096	-265
K - J	4096	-265	H - G	3105	-182
J - I	4096	-265			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	202	-3266	C - H	108	-963
B - K	675	0	H - D	674	0
K - C	109	-962	D - G	201	-3265

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.57	21.42	5.16
23.75	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

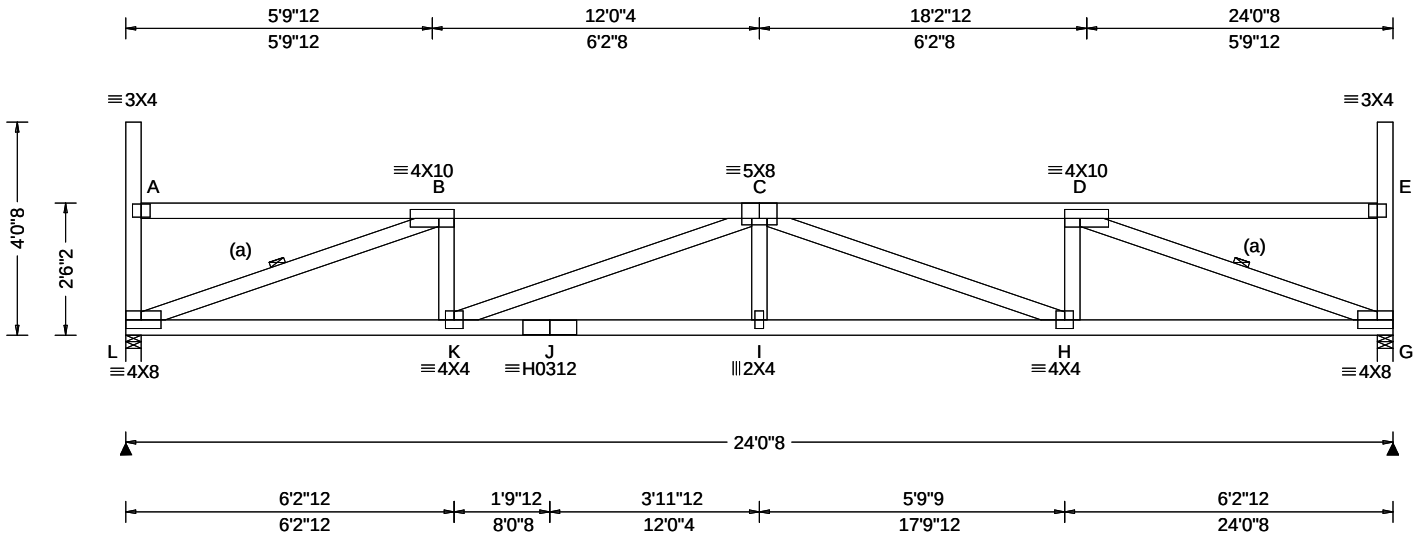
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34456 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T43	Cust: R 9316 JRef:1Xf393160008 T161 DrwNo: 118.22.1352.50827 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.256	I	999	360
VERT(CL): 0.438	I	658	240
HORZ(LL): 0.063	G	-	-
HORZ(TL): 0.108	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.507
Max BC CSI: 0.553
Max Web CSI: 0.684

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/81	/126
G	1422	/-	/-	/611	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	176	- 3137	C - D	177	- 3136

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3049	- 289	I - H	4020	- 261
K - J	4020	- 261	H - G	3048	- 180
J - I	4020	- 261			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	199	- 3213	C - H	105	- 947
B - K	675	0	H - D	674	0
K - C	106	- 946	D - G	198	- 3212

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.53	20.04	4.83
23.75	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

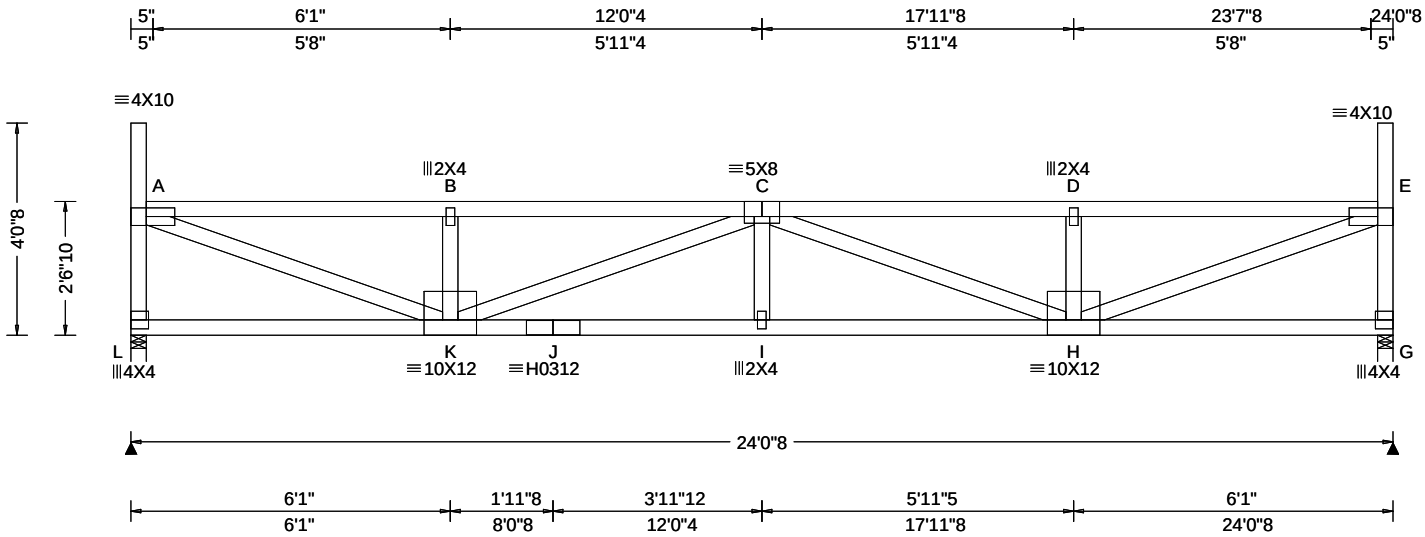
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34457 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T44	Cust: R 9316 JRef:1Xf393160008 T143 DrwNo: 118.22.1352.50540 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.260 I	999	360
VERT(CL):	0.445 I	647	240
HORZ(LL):	0.048 A	-	-
HORZ(TL):	0.082 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.642
Max BC CSI: 0.540
Max Web CSI: 0.774

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/82	/125
G	1422	/-	/-	/611	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	178	- 3063	C - D	177	- 3057
B - C	177	- 3058	D - E	178	- 3062

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3947	- 256	I - H	3947	- 256
J - I	3947	- 256			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	96	- 1290	C - H	99	- 952
A - K	3153	- 196	D - H	77	- 384
B - K	77	- 383	H - E	3152	- 197
K - C	102	- 951	E - G	96	- 1290

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.49	18.65	4.50
23.75	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

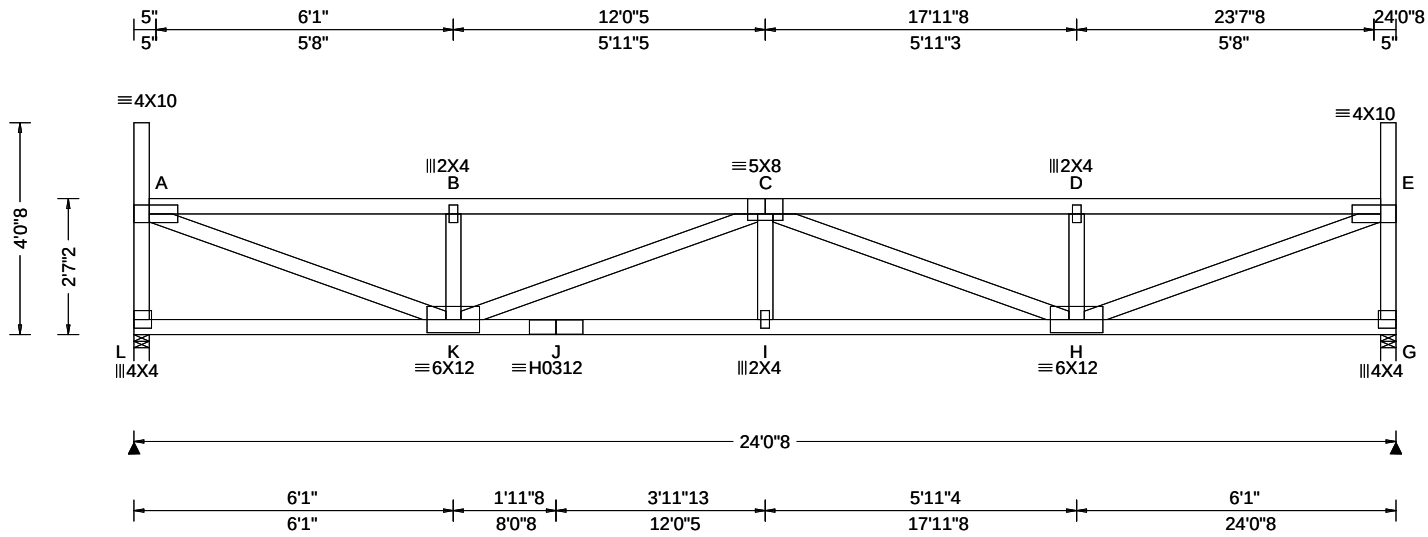
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34458 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T45	Cust: R 9316 JRef:1Xf393160008 T153 DrwNo: 118.22.1352.50730 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.251 I	999	360
VERT(CL):	0.430 I	670	240
HORZ(LL):	0.047 A	-	-
HORZ(TL):	0.081 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.628
Max BC CSI: 0.535
Max Web CSI: 0.762

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/82	/124
G	1422	/-	/-	/611	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	175	-3009	C - D	174	-3003
B - C	175	-3004	D - E	175	-3008

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3876	-253	I - H	3876	-253
J - I	3876	-253			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	96	-1290	C - H	97	-937
A - K	3104	-193	D - H	77	-385
B - K	77	-385	H - E	3102	-194
K - C	100	-935	E - G	96	-1290

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.45	17.27	4.16
23.75	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

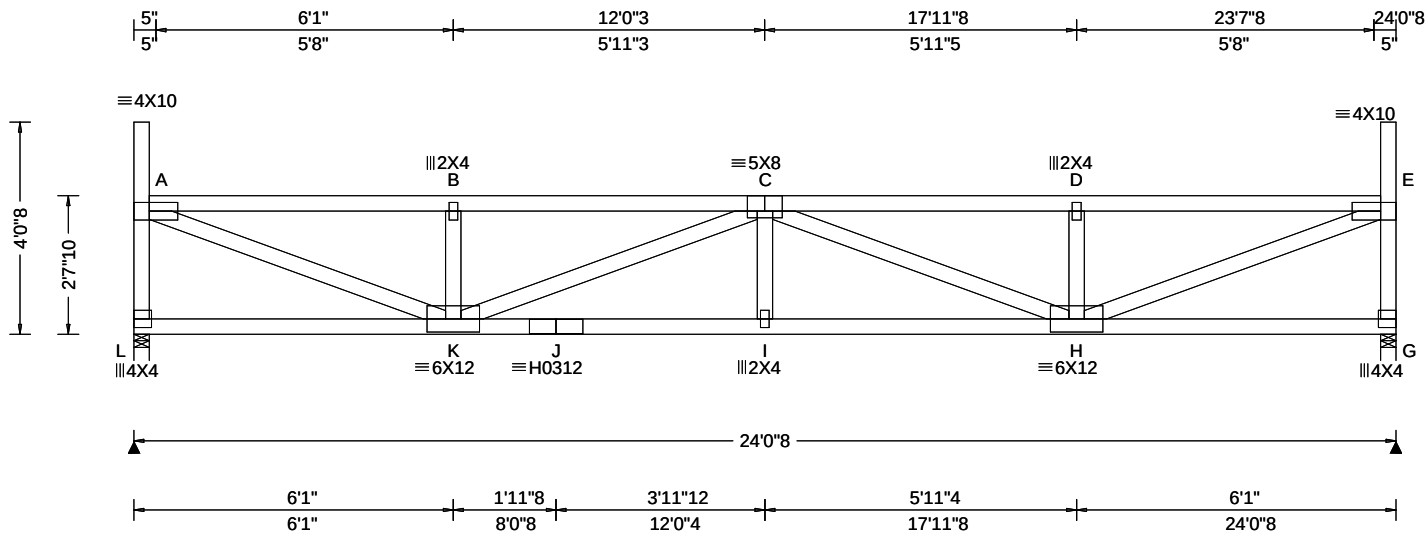
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34459 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T46	Cust: R 9316 JRef:1Xf393160008 T148 DrwNo: 118.22.1352.50022 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.243 I	999	360
VERT(CL):	0.416 I	692	240
HORZ(LL):	0.046 A	-	-
HORZ(TL):	0.080 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.618
Max BC CSI: 0.528
Max Web CSI: 0.750

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/82	/122
G	1422	/-	/-	/611	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	173	- 2956	C - D	172	- 2951
B - C	172	- 2951	D - E	172	- 2956

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3808	- 249	I - H	3808	- 249
J - I	3808	- 249			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	96	- 1291	C - H	95	- 921
A - K	3055	- 190	H - E	3055	- 191
B - K	77	- 386	D - H	77	- 387
K - C	97	- 921	E - G	96	- 1290

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.41	15.89	3.83
23.75	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.17". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

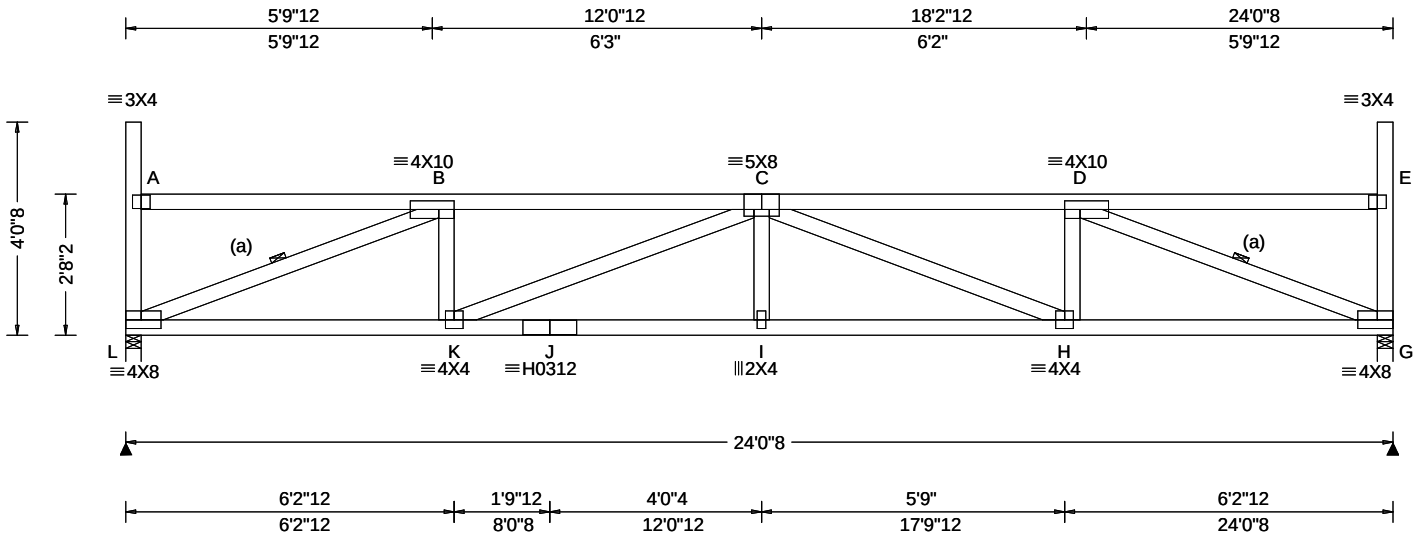
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34460 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T47	Cust: R 9316 JRef:1Xf393160008 T163 DrwNo: 118.22.1352.50496 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.224 I	999	360
VERT(CL):	0.383 I	752	240
HORZ(LL):	0.058 G	-	-
HORZ(TL):	0.100 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.501
Max BC CSI: 0.534
Max Web CSI: 0.652

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/82	/121
G	1422	/-	/-	/611	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	166	- 2923	C - D	166	- 2920

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	2841	- 272	I - H	3742	- 248
K - J	3742	- 248	H - G	2838	- 173
J - I	3742	- 248			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	188	- 3024	C - H	96	- 890
B - K	673	0	H - D	676	0
K - C	98	- 885	D - G	187	- 3020

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.22" DL: 0.16". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

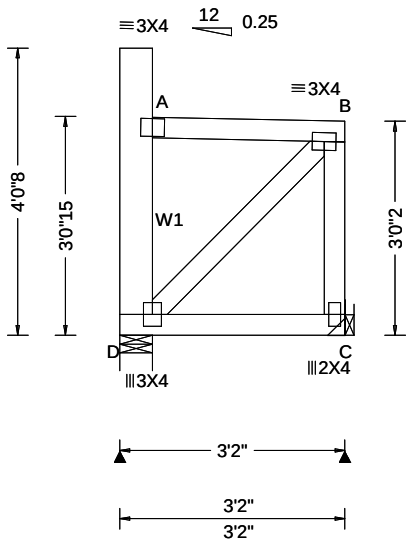
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34461 / MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48	Cust: R 9316 JRef:1Xf393160008 T139 DrwNo: 118.22.1352.49505 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.04 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.001	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.139
Max BC CSI: 0.103
Max Web CSI: 0.028

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	160	/-	/-	/95	/52	/78
C	188	/-	/-	/134	/46	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

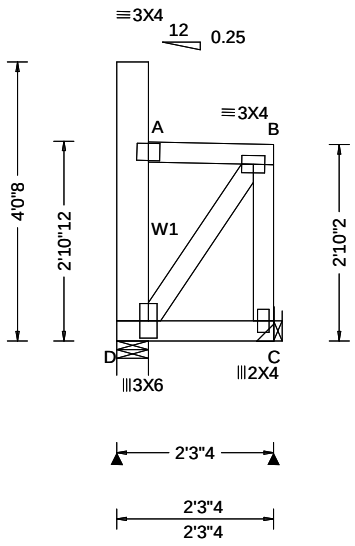
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34463 / MONO FROM:	Ply: 1 Qty: 20	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T49	Cust: R 9316 JRef:1Xf393160008 T230 DrwNo: 118.22.1352.51589 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.87 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.065
Max BC CSI: 0.052
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	107	/-	/-	/87	/77	/80
C	133	/-	/-	/135	/60	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

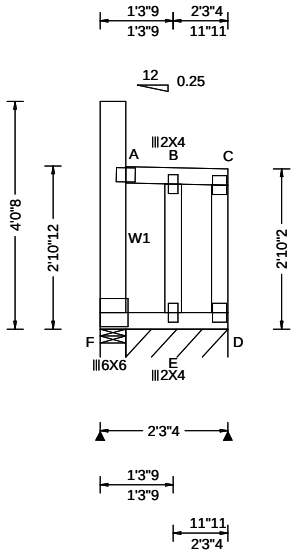
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34464 / MONO FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T50	Cust: R 9316 JRef:1Xf393160008 T128 DrwNo: 118.22.1352.51169 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.87 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.006	A	999	360
VERT(CL): 0.008	A	999	240
HORZ(LL): 0.111	B	-	-
HORZ(TL): 0.128	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.110
Max BC CSI: 0.254
Max Web CSI: 0.115

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	33	/-11	/-	/96	/138	/80
D*	128	/-	/-	/130	/57	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 21.7 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

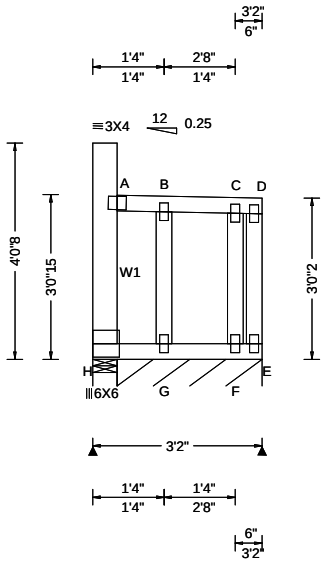
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34465 / GABL FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T51	Cust: R 9316 JRef:1Xf393160008 T114 DrwNo: 118.22.1352.51692 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.04 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	A	999	360
VERT(CL): 0.009	A	999	240
HORZ(LL): 0.121	C	-	-
HORZ(TL): 0.142	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.087
Max BC CSI: 0.243
Max Web CSI: 0.109

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	41	/-	/-	/117	/130	/90
E*	113	/-	/-	/96	/43	/-

Wind reactions based on MWFRS
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 32.5 Min Req = -
Bearings H & H are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

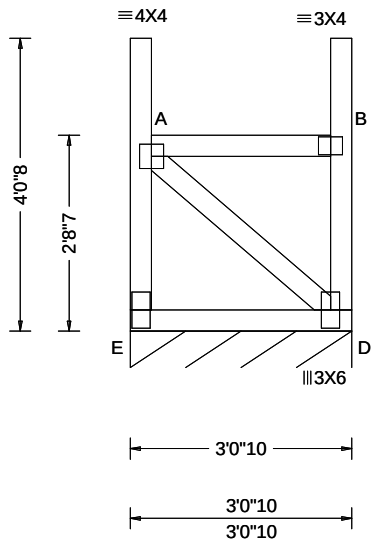
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34466 / GABL FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T52	Cust: R 9316 JRef:1Xf393160008 T216 DrwNo: 118.22.1352.51642 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.000 A	999	360
VERT(CL):	0.000 B	999	240
HORZ(LL):	-0.001 B	-	-
HORZ(TL):	0.002 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.142
Max BC CSI: 0.107
Max Web CSI: 0.221

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	113	/-	/-	/45	/4	/39

Wind reactions based on MWFRS
D Brg Wid = 36.6 Min Req = -
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
A - D	382	-387

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.00	1.34	13.63	2.47
2.76	0.00	20.00	1.34	13.63	2.47

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

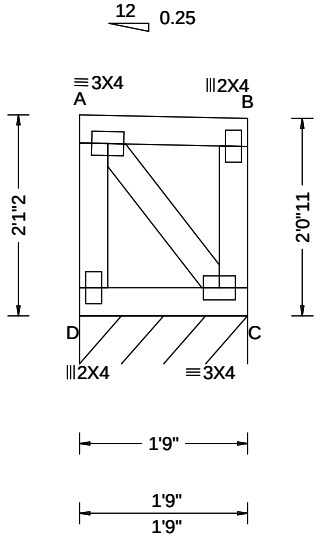
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34467 / MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE01	Cust: R 9316 JRef:1Xf393160008 T188 DrwNo: 118.22.1352.52159 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.08 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.046
Max BC CSI: 0.032
Max Web CSI: 0.021

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 21.0 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

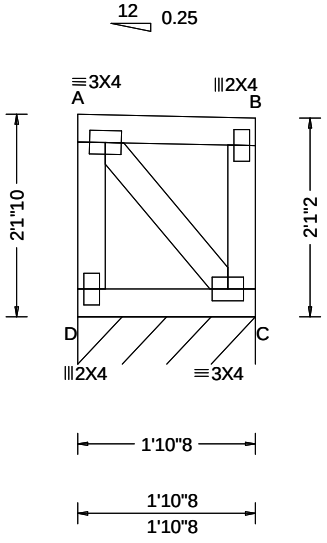
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34468 / MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE02	Cust: R 9316 JRef:1Xf393160008 T189 DrwNo: 118.22.1352.51165 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.12 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.022

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/18

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

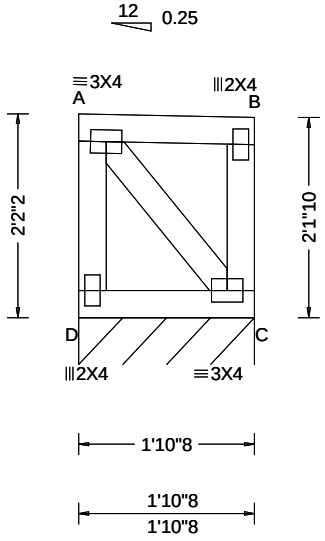
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34469 / MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE03	Cust: R 9316 JRef:1Xf393160008 T190 DrwNo: 118.22.1352.51814 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.16 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.023

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

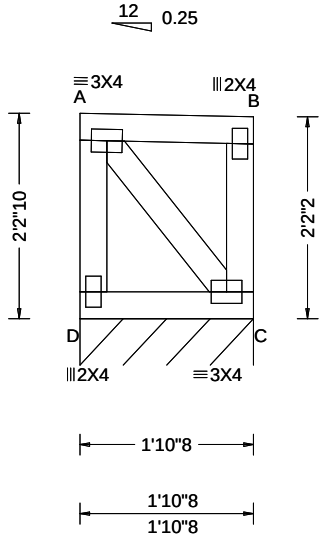
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34470 / MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE04	Cust: R 9316 JRef:1Xf393160008 T192 DrwNo: 118.22.1352.51771 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.20 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.024

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

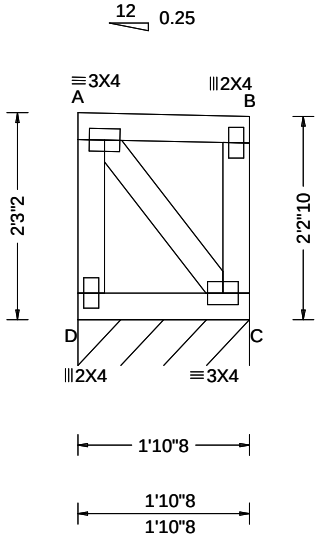
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34471 / MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE05	Cust: R 9316 JRef:1Xf393160008 T215 DrwNo: 118.22.1352.49610 / NDW 04/28/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.24 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.025 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

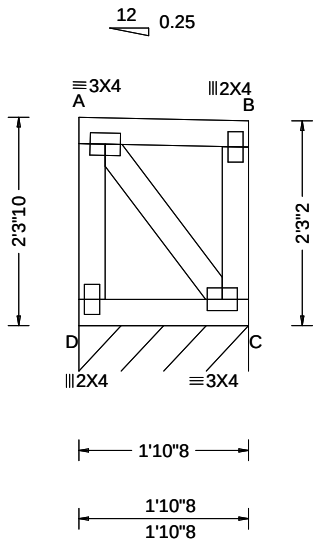
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34472 / MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE06	Cust: R 9316 JRef:1Xf393160008 T219 DrwNo: 118.22.1352.49300 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.28 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.026

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

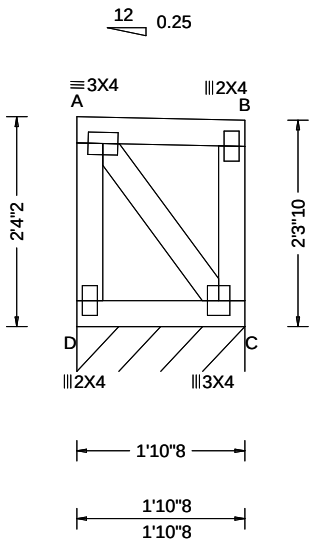
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34473 / MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE07	Cust: R 9316 JRef:1Xf393160008 T220 DrwNo: 118.22.1352.50065 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.32 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.027

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

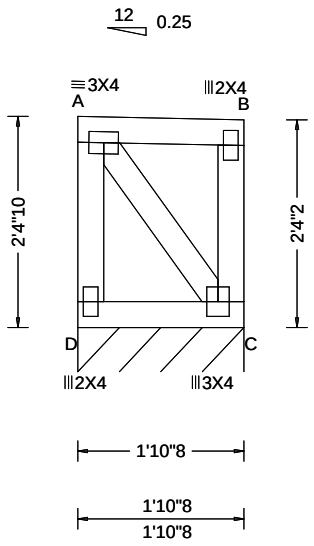
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34474 / MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE08	Cust: R 9316 JRef:1Xf393160008 T221 DrwNo: 118.22.1352.50251 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.028

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

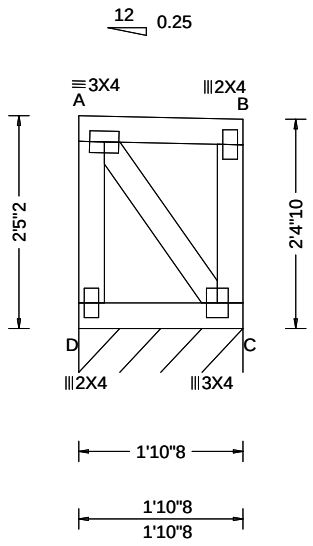
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34475 / MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE09	Cust: R 9316 JRef:1Xf393160008 T222 DrwNo: 118.22.1352.50855 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.41 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.029

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

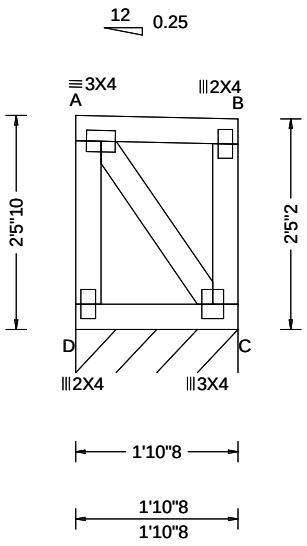
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34476 / MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE10	Cust: R 9316 JRef:1Xf393160008 T223 DrwNo: 118.22.1352.50940 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.45 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.031

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

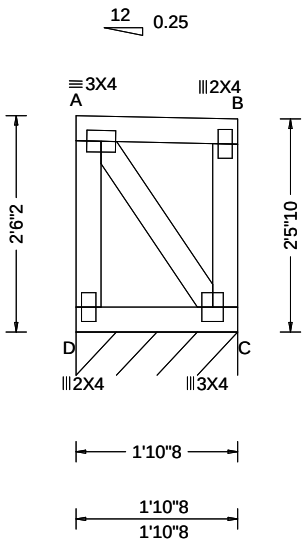
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34477 / MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE11	Cust: R 9316 JRef:1Xf393160008 T224 DrwNo: 118.22.1352.51726 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.49 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.032

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

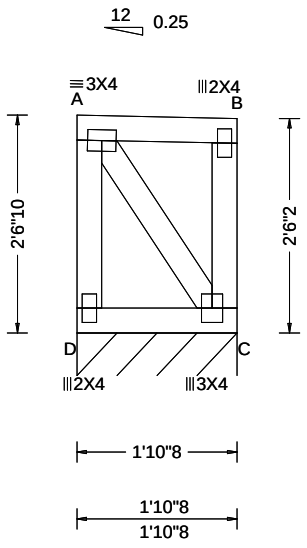
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34478 / MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE12	Cust: R 9316 JRef:1Xf393160008 T225 DrwNo: 118.22.1352.49656 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.033

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

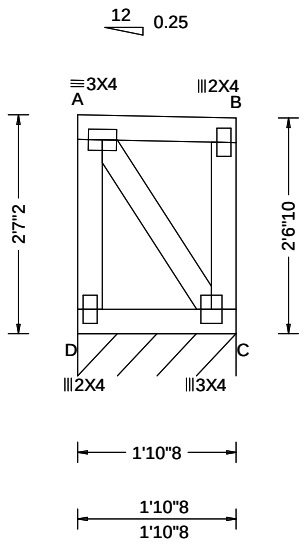
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34479 / MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE13	Cust: R 9316 JRef:1Xf393160008 T226 DrwNo: 118.22.1352.49820 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.57 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.035

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

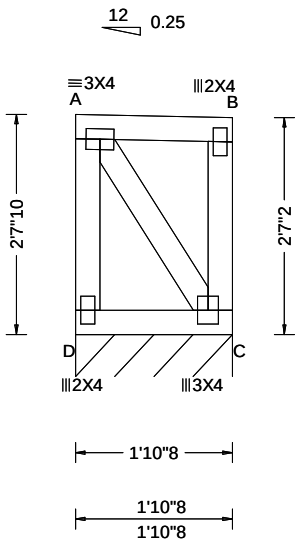
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34480 / MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE14	Cust: R 9316 JRef:1Xf393160008 T227 DrwNo: 118.22.1352.49303 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.62 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.036

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

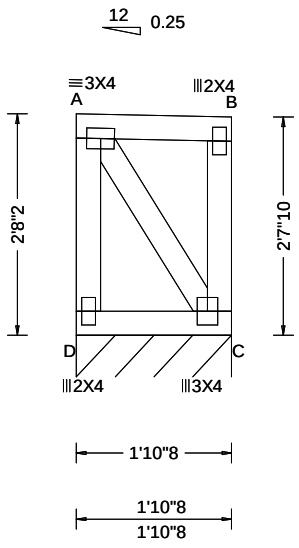
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34481 / MONO FROM:	Ply: 1 Qty: 10	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE15	Cust: R 9316 JRef:1Xf393160008 T228 DrwNo: 118.22.1352.51673 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.66 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.037

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

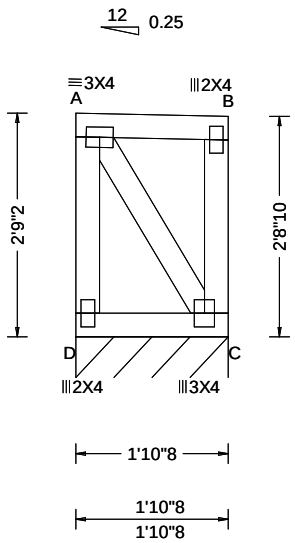
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34482 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE16	Cust: R 9316 JRef:1Xf393160008 T251 DrwNo: 118.22.1352.48867 / NDW 04/28/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.74 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.040 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

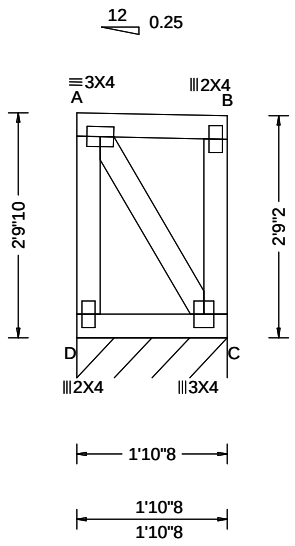
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34483 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE17	Cust: R 9316 JRef:1Xf393160008 T252 DrwNo: 118.22.1352.48895 / NDW 04/28/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.78 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

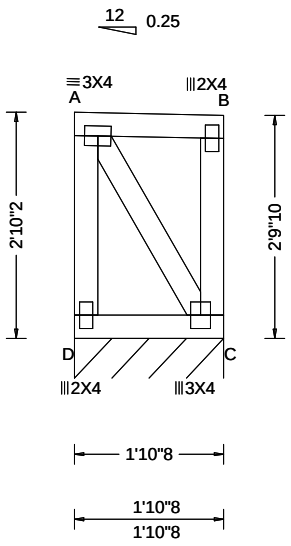
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34484 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE18	Cust: R 9316 JRef:1Xf393160008 T253 DrwNo: 118.22.1352.49381 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.82 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

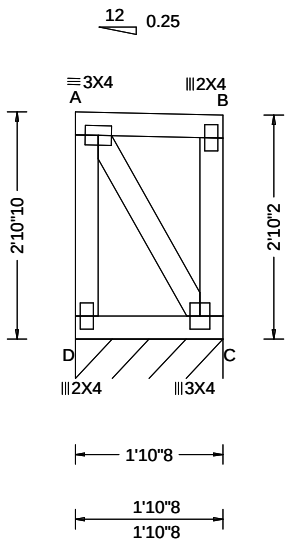
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34485 / MONO FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE19	Cust: R 9316 JRef:1Xf393160008 T254 DrwNo: 118.22.1352.50091 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.044

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/27

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

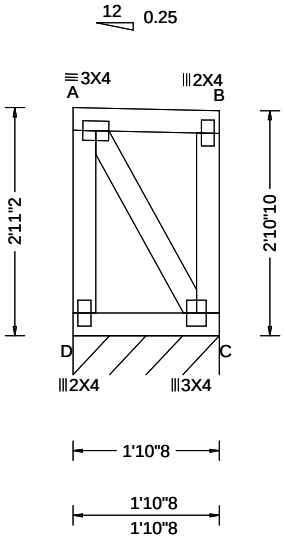
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34486 / MONO FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE20	Cust: R 9316 JRef:1Xf393160008 T255 DrwNo: 118.22.1352.49142 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.57 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.046

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

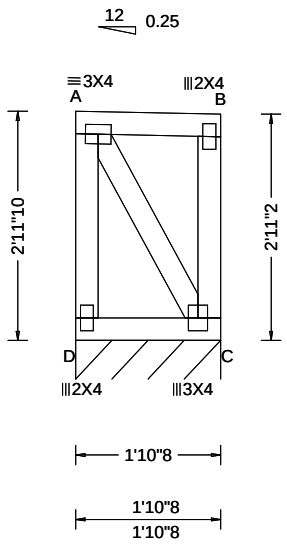
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34487 / MONO FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE21	Cust: R 9316 JRef:1Xf393160008 T256 DrwNo: 118.22.1352.50865 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.95 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.047

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

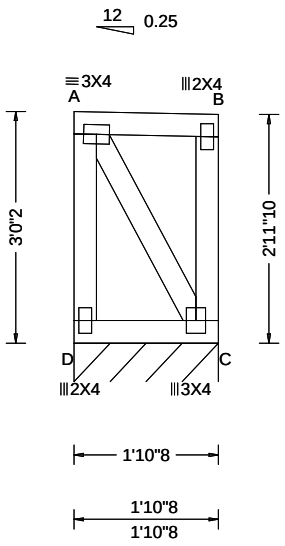
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34488 / MONO FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE22	Cust: R 9316 JRef:1Xf393160008 T257 DrwNo: 118.22.1352.51095 / NDW 04/28/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.049 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/29

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

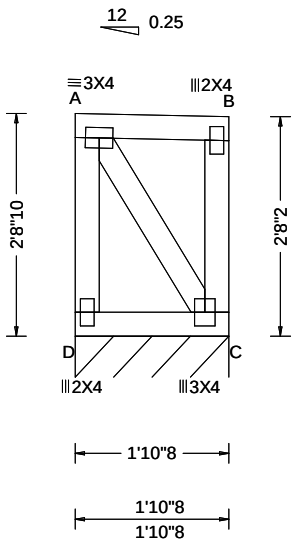
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34489 / MONO FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE23	Cust: R 9316 JRef:1Xf393160008 T231 DrwNo: 118.22.1352.50901 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.038

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

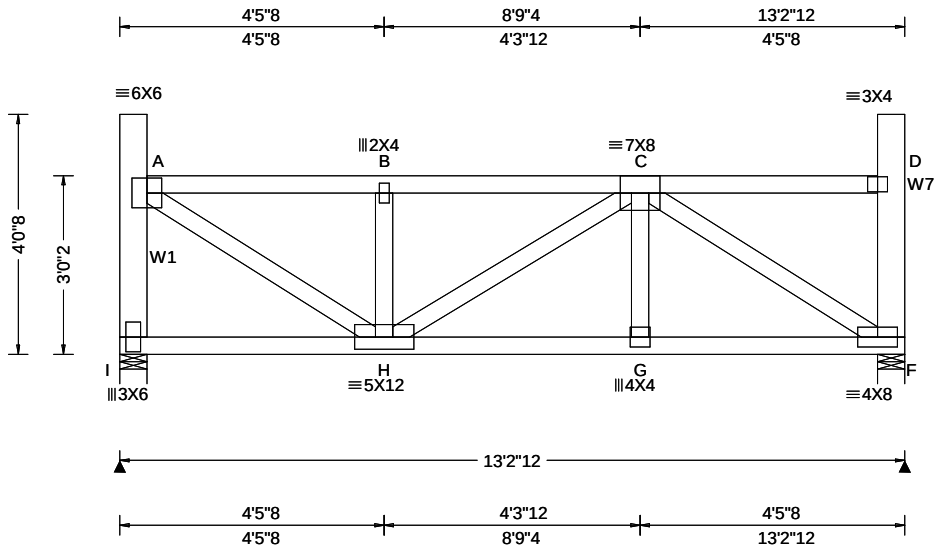
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34491 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T09	Cust: R 9316 JRef:1Xf393160008 T4 DrwNo: 118.22.1415.27923 / NDW 04/28/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.042 G	999	360
VERT(CL):	0.072 G	999	240
HORZ(LL):	0.014 F	-	-
HORZ(TL):	0.024 F	-	-

Creep Factor: 2.0
Max TC CSI: 0.296
Max BC CSI: 0.918
Max Web CSI: 0.785

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	1362	/-	/-	/-	/174	/-
F	1285	/-	/-	/-	/149	/-

Wind reactions based on MWFRS
I Brg Wid = 5.5 Min Req = 2.1 (Truss)
F Brg Wid = 5.5 Min Req = 2.0 (Truss)
Bearings I & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	207	- 1665	B - C	206	- 1660

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	1647	- 194	G - F	1647	- 194

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - A	127	- 1095	C - G	646	- 93
A - H	1801	- 222	C - F	219	- 1873

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 50 plf at 0.00 to 50 plf at 13.23
BC: 188 lb Conc. Load at 1.17, 3.17, 5.17,11.17
BC: 186 lb Conc. Load at 7.17, 9.17

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

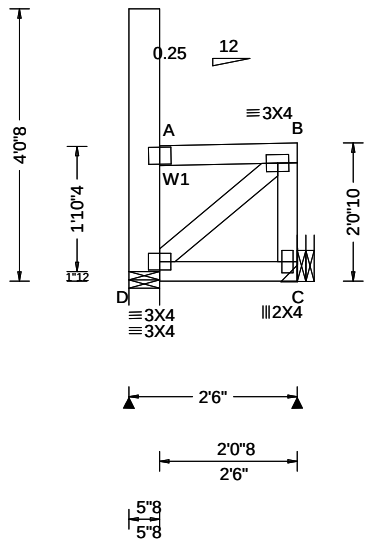
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34419 / MONO FROM: JRQ	Ply: 1 Qty: 26	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02A	Cust: R 9316 JRef:1Xf393160008 T20 / DrwNo: 118.22.1352.49929 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.102
Max BC CSI: 0.066
Max Web CSI: 0.106

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	113	/-	/-	/89	/75	/61
C	158	/-	/-	/132	/55	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

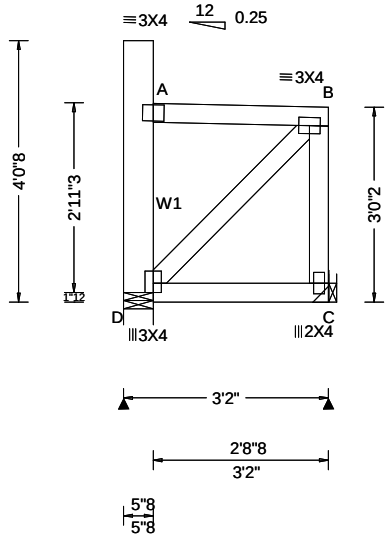
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34462 / MONO FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48A	Cust: R 9316 JRef:1Xf393160008 T15 / DrwNo: 118.22.1352.51535 / NDW 04/28/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.04 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.139
Max BC CSI: 0.109
Max Web CSI: 0.028

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	139	/-	/-	/81	/42	/34
C	186	/-	/-	/113	/32	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

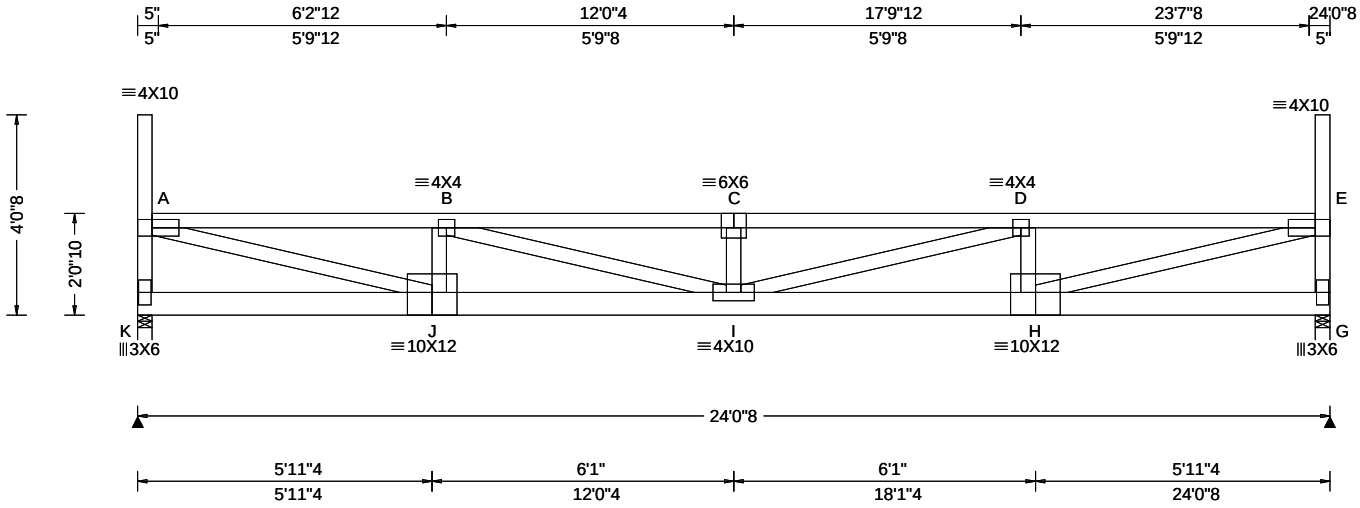
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34509 FLAT FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T32	Cust: R 9316 JRef:1Xf393160008 T18 DrwNo: 118.22.1416.09013 / NDW 04/28/2022	

2 Complete Trusses Required



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.375 C 768 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.643 C 448 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.049 A - -
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.083 A - -
NCBCLL: 0.00	Mean Height: 21.05 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.731
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.552
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.814
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	2305	/-	/-	/-	/380	/-
G	2291	/-	/-	/-	/389	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	562	- 3287	C - D	751	- 4305
B - C	751	- 4305	D - E	579	- 3287

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	3358	- 569	I - H	3358	- 586

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	161	- 1006	I - D	986	- 172
A - J	3317	- 569	D - H	42	- 433
J - B	48	- 433	H - E	3318	- 586
B - I	986	- 189	E - G	166	- 1006

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @11.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 23.75
BC: From 50 plf at 0.00 to 50 plf at 24.04
BC: 158 lb Conc. Load at 1.90, 3.90, 5.90, 7.90 9.90,19.90
BC: 160 lb Conc. Load at 11.90,13.90,15.90,17.90 21.90

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.99	34.38	4.14
23.75	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

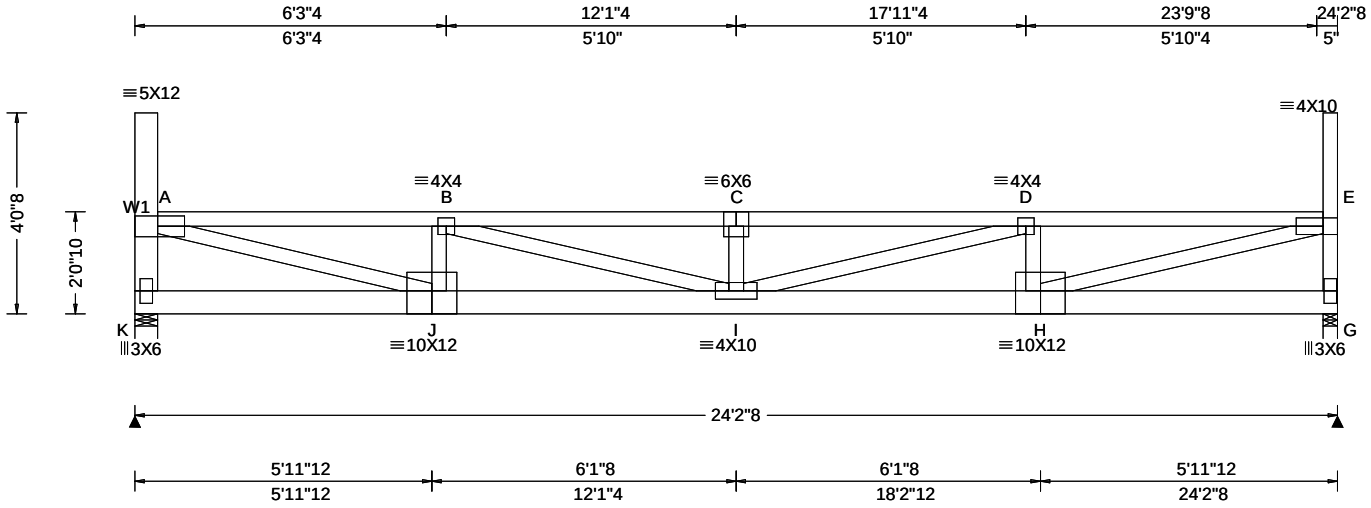
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34512 FLAT FROM:	Ply: 2 Qty: 3	**Job Number:** JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T16	Cust: R 9316 JRef:1Xf393160008 T12 DrwNo: 118.22.1415.46960 / NDW 04/28/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.384 C	756	360
VERT(CL):	0.658 C	441	240
HORZ(LL):	0.050 A	-	-
HORZ(TL):	0.086 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.758
Max BC CSI: 0.559
Max Web CSI: 0.824

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	2296	/-	/-	/-	/391	/-
G	2309	/-	/-	/-	/378	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	583	- 3326	C - D	758	- 4363
B - C	758	- 4363	D - E	567	- 3328

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	3397	- 590	I - H	3400	- 575

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	165	- 1000	I - D	1002	- 191
A - J	3298	- 580	D - H	48	- 437
J - B	43	- 436	H - E	3358	- 574
B - I	1005	- 175	E - G	162	- 1012

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @11.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 23.92
BC: From 50 plf at 0.00 to 50 plf at 24.21
BC: 160 lb Conc. Load at 2.15, 4.15, 8.15,10.15 12.15
BC: 158 lb Conc. Load at 6.15,14.15,16.15,18.15 20.15,22.15

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.99	34.38	4.14
23.92	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

Gable Stud Reinforcement Detail

ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 'L' Brace * Group A	(1) 1x4 'L' Brace * Group B	(1) 2x4 'L' Brace * Group A	(1) 2x4 'L' Brace * Group B	(2) 2x4 'L' Brace ** Group A	(2) 2x4 'L' Brace ** Group B	(1) 2x6 'L' Brace * Group A	(1) 2x6 'L' Brace * Group B	(2) 2x6 'L' Brace ** Group A	(2) 2x6 'L' Brace ** Group B
24" o.c.	SPF HF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"
16" o.c.	SPF HF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

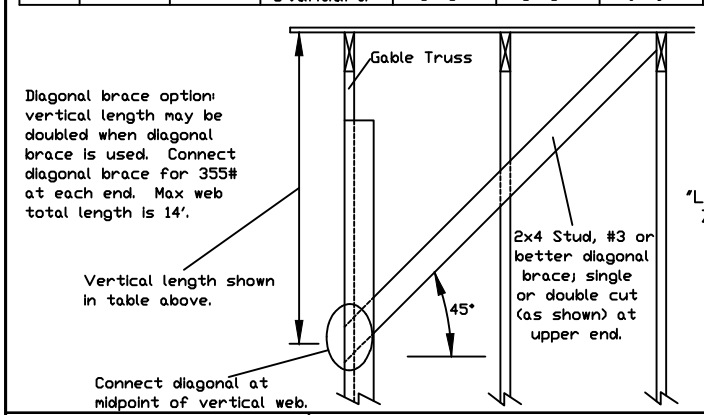
Attach 'L' braces with 10d (0.128"x3.0" min) nails.

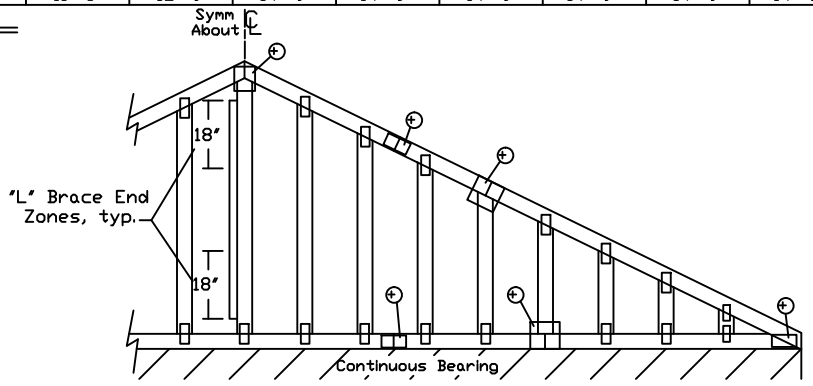
* For (1) 'L' brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) 'L' braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

'L' bracing must be a minimum of 80% of web member length.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 355# at each end. Max web total length is 14'.





Refer to chart above for max gable vertical length.

Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT: FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

ALPINE® ITW COMPANY

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-16-GAB11530
DATE	01/26/2018
DRWG	A11530ENC160118

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforecement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

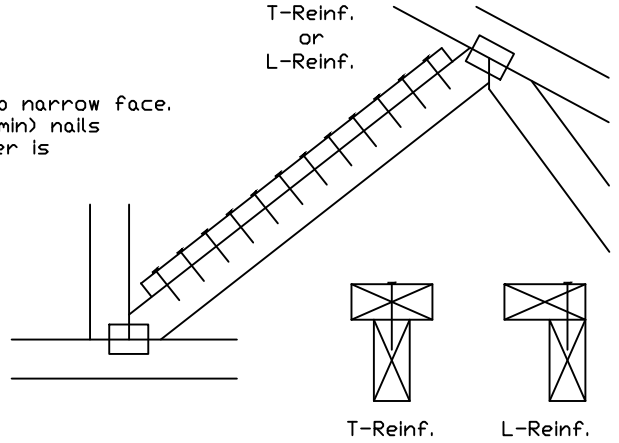
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

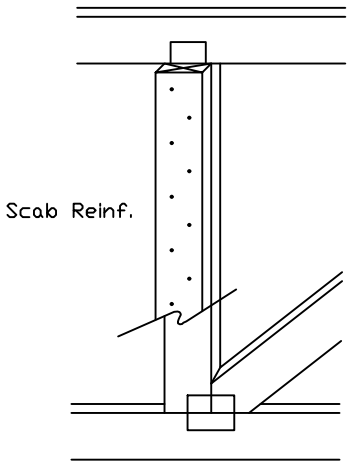
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL	PSF	
TC DL	PSF	
BC DL	PSF	
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

REF	CLR Subst.
DATE	01/02/19
DRWG	BRCLBSUB0119

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

Building 6

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C
Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail for lumber, plates, and other information not shown on this detail.

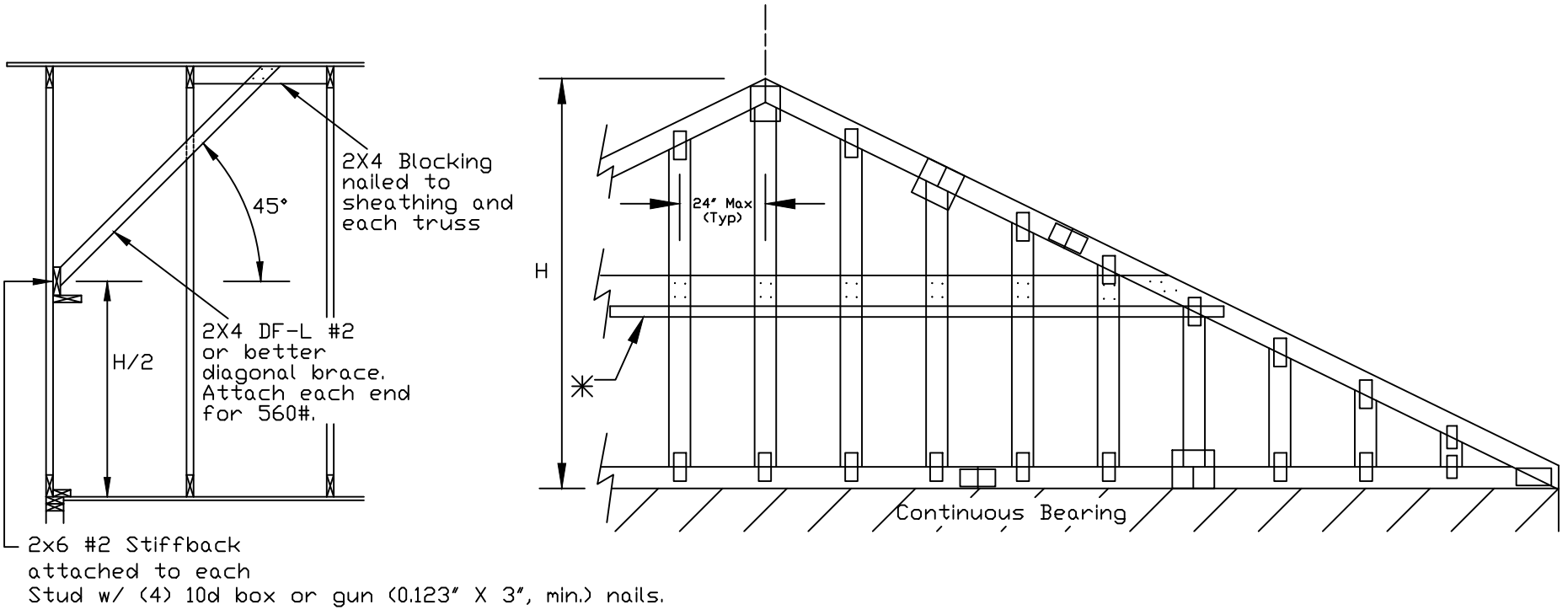
Nails: 10d box or gun (0.128"x3",min) nails.

H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback to roof diaphragm every 6'0" (see detail below or refer to DRWG A12030ENC160118).

H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace to roof diaphragm every 4'0" (see detail below or refer to DRWG A12030ENC160118).

✳ Optional 2x L-reinforcement attached to stiffback with 10d box or gun (0.128" x 3", min.) nails @ 6" o.c.



****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

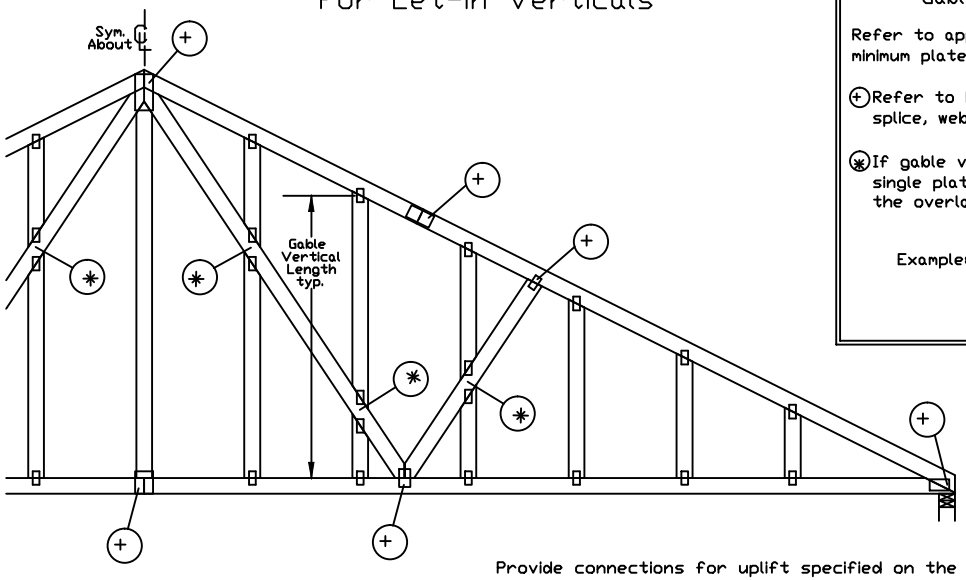
ALPINE® ITW COMPANY

MAX. TOT. LD. 60 PSF

MAX. SPACING

REF	GE WHALER
DATE	01/02/2018
DRWG	GABRST160118

Gable Detail
For Let-in Verticals



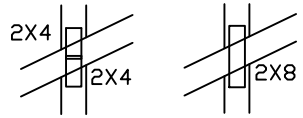
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

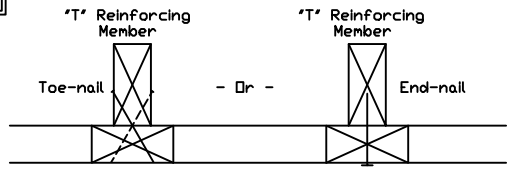
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊛ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



"T" Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:
10d Common (0.148"x 3.",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

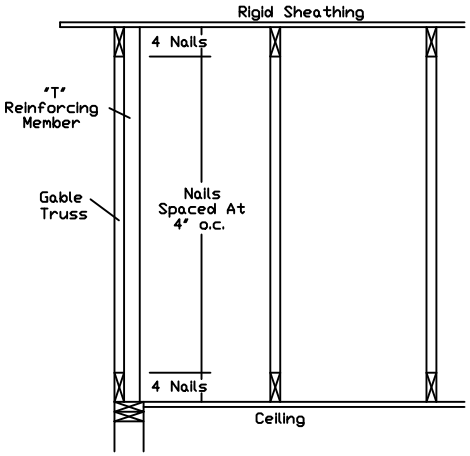
Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24"o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

MAX. TOT. LD. 60 PSF
DUR. FAC. ANY
MAX. SPACING 24.0"

REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118

Building 7

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 10, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 7 Floor Layout Shop Drawings	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Group 7 Floor Layout

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 5/23/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRi ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED, REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

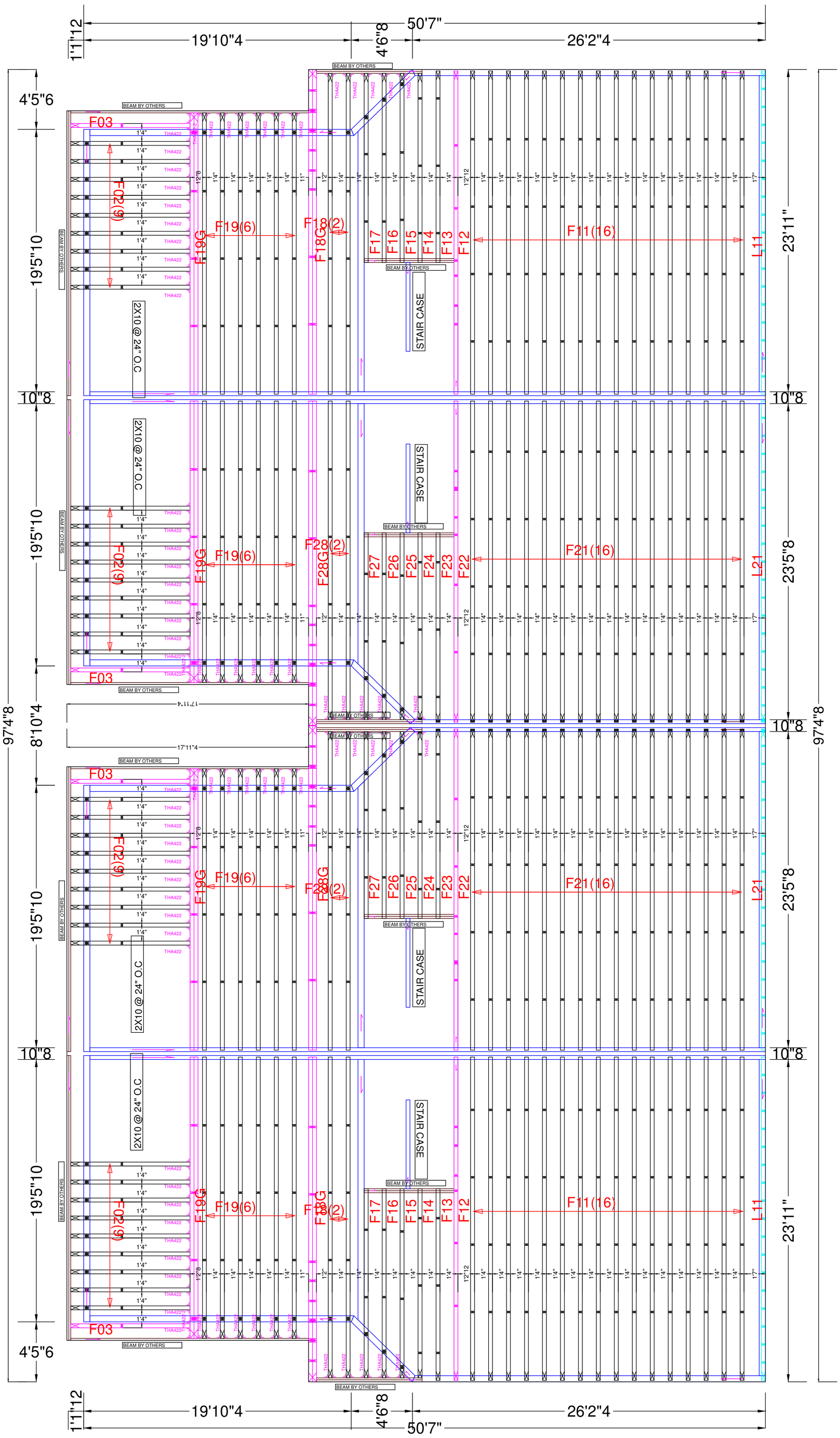
Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS
DATE: 05/10/2022 BY: CB

Total Truss Quantity = 180.

Total Plan Area with OHs = 4343 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
=	THA422	86	Simpson
=	THA422-2	4	Simpson



DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

mill Creek
3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-6108

Job Name: McCambridge Brothers Construction

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Designer: Juan R Quiroz

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

Reference #: JB-220677

Date: 3/17/2022

Building 7

03/17/2022

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/10/2022 *BY:* CB

Alpine, an ITW company
514 Earth City Expressway
Suite 242
Earth City, MO 63045
Phone: (800)326-4102 (314)344-9121
alpineitw.com

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 5/23/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRi ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

Site Information:	**Page 1:**
Customer: Mill Creek Truss	*Job Number:* JB-220677
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1XdX93160004
Wind Standard: ASCE716 *Wind Speed (mph):* 0 *Building Type:*	*Design Loading (psf):* 75.00

This package contains general notes pages, 24 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	076.22.1315.41268	F02	2	076.22.1315.41817	F03
3	076.22.1315.42590	F11	4	076.22.1315.41959	F12
5	076.22.1315.41816	F13	6	076.22.1315.41640	F14
7	076.22.1315.41777	F15	8	076.22.1315.42414	F16
9	076.22.1315.42976	F17	10	076.22.1315.41322	F18
11	076.22.1315.42597	F18G	12	076.22.1315.55011	F19
13	076.22.1315.54878	F19G	14	076.22.1315.41247	F21
15	076.22.1315.43294	F22	16	076.22.1315.41681	F23
17	076.22.1315.41324	F24	18	076.22.1315.42035	F25
19	076.22.1315.41350	F26	20	076.22.1315.41325	F27
21	076.22.1315.41343	F28	22	076.22.1315.41306	F28G
23	076.22.1315.41953	L11	24	076.22.1315.42179	L21
25	CNSY42PL0118		26	DEFLCAMB1014	
27	LSCSYX2A1014		28	STRBRIBR1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

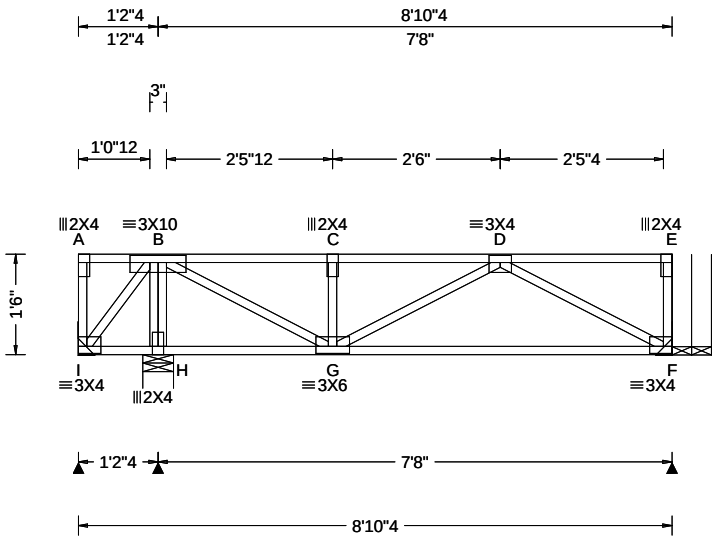
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 7

SEQN: 97172 / SY42 FROM:	Ply: 1 Qty: 36	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F02	Cust: R 9316 JRef:1XdX93160004 T6 DrwNo: 076.22.1315.41268 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.018	C	999	480
VERT(CL): 0.034	C	999	360
HORZ(LL): 0.002	F	-	-
HORZ(TL): 0.004	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.299
Max BC CSI: 0.301
Max Web CSI: 0.162

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	28	/-43	/-	/-	/-	/-
H	525	/-	/-	/-	/-	/-
F	372	/-	/-	/-	/-	/-

I Brg Wid = - Min Req = -
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
F Brg Wid = - Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-485	C - D	0	-485

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	473	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - H	0	-499	D - F	0	-537
B - G	576	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

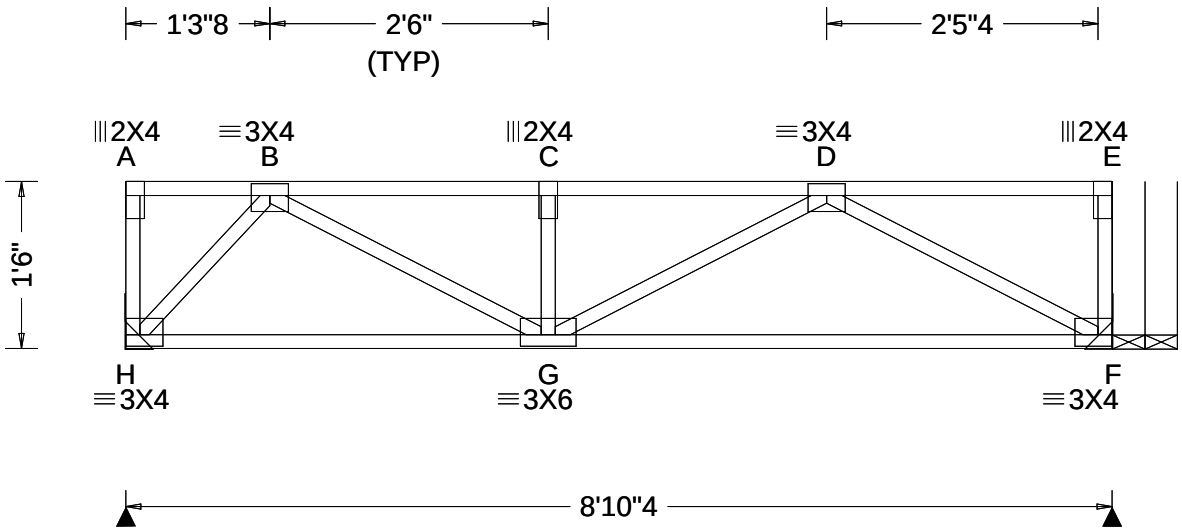
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97174 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F03	Cust: R 9316 JRef:1XdX93160004 T7 / DrwNo: 076.22.1315.41817 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.024	C	999	480
VERT(CL): 0.046	C	999	360
HORZ(LL): 0.004	B	-	-
HORZ(TL): 0.008	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.298
Max BC CSI: 0.324
Max Web CSI: 0.141

VIEW Ver: 21.02.00.1005.17

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	443	/-	/-	/-	/-	/-
F	443	/-	/-	/-	/-	/-

H Brg Wid = - Min Req = -
F Brg Wid = - Min Req = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-747	C - D	0	-747

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	606	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - B	0	-546	D - F	0	-687
B - G	426	0			

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

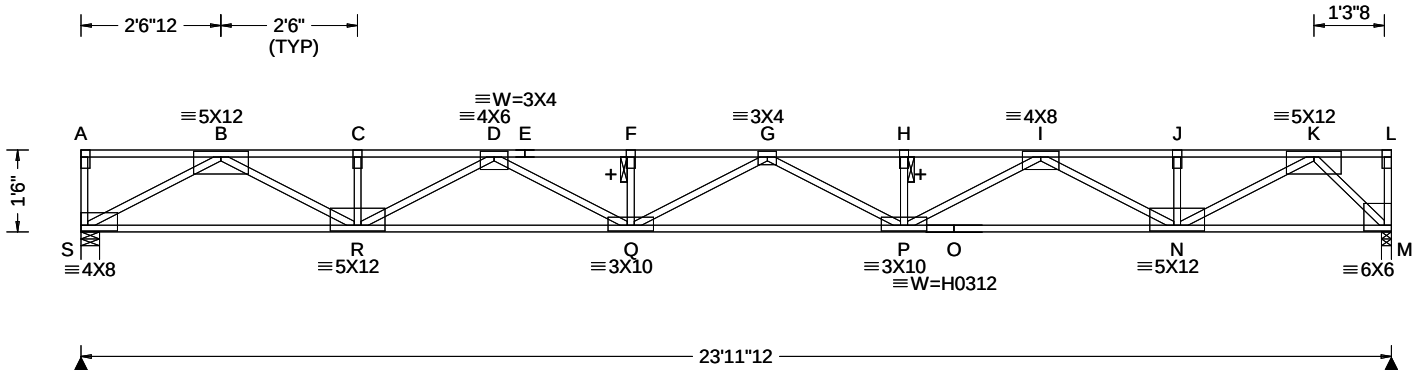
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97176 / SY42 FROM:	Ply: 1 Qty: 32	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F11	Cust: R 9316 JRef:1XdX93160004 T28 / DrwNo: 076.22.1315.42590 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.414	G	695	480
VERT(CL): 0.775	G	371	360
HORZ(LL): 0.057	M	-	-
HORZ(TL): 0.107	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.398
Max BC CSI: 0.672
Max Web CSI: 0.551

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	1199	/-	/-	/-	/-	/-
M	1199	/-	/-	/-	/-	/-

S Brg Wid = 4.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3522	G - H	0	-4917
C - D	0	-3522	H - I	0	-4917
D - E	0	-5123	I - J	0	-2895
E - F	0	-5123	J - K	0	-2895
F - G	0	-5123			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	2010	0	P - O	4106	0
R - Q	4523	0	O - N	4106	0
Q - P	5219	0	N - M	1183	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2281	P - I	925	0
B - R	1725	0	I - N	0	-1382
R - D	0	-1143	N - K	1954	0
D - Q	684	0	K - M	0	-1648

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

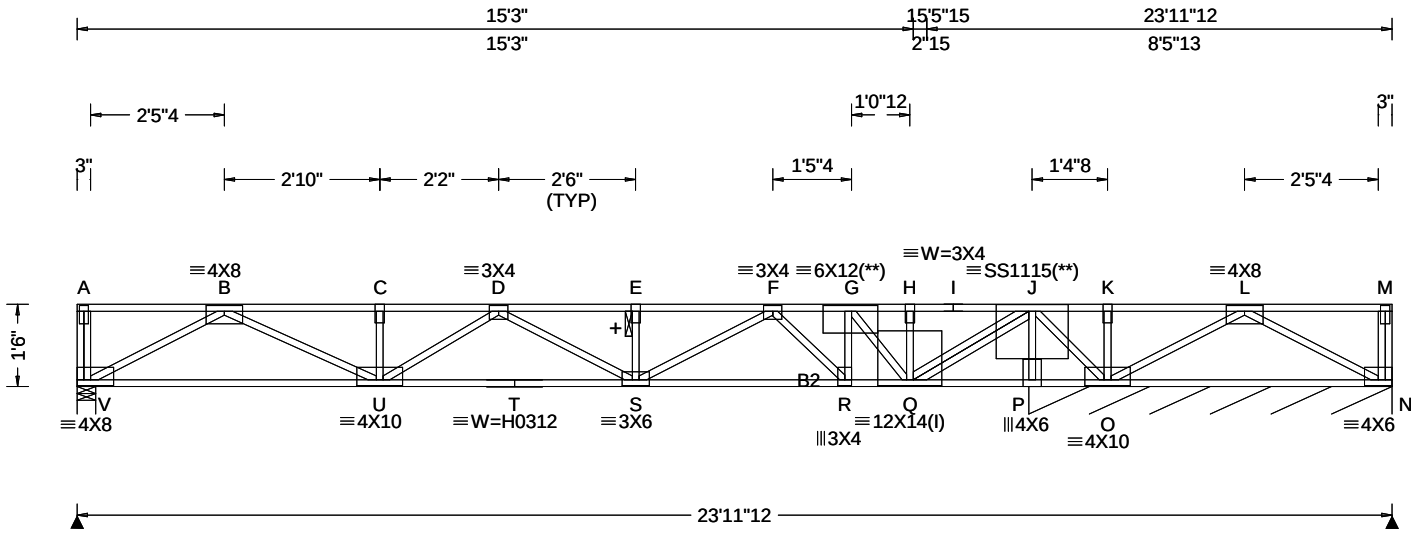
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97178 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F12	Cust: R 9316 JRef:1XdX93160004 T1 / DrwNo: 076.22.1315.41959 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.201	E	999	480
VERT(CL): 0.377	E	545	360
HORZ(LL): 0.029	B	-	-
HORZ(TL): 0.054	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.946
Max BC CSI: 0.960
Max Web CSI: 0.568

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	443	/-	/-	/-	/-	/-
N		/-304				

V Brg Wid = 4.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2615	G - H	0	-818
C - D	0	-2615	H - I	0	-818
D - E	0	-3202	I - J	0	-818
E - F	0	-3202	J - K	2031	0
F - G	0	-2426	K - L	2031	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1461	0	R - Q	2382	0
U - T	3059	0	Q - P	0	-2607
T - S	3059	0	P - O	0	-2607
S - R	2851	0	O - N	0	-784

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1680	G - Q	0	-2558
B - U	1283	0	Q - J	4025	0
U - D	0	-526	J - P	0	-2889
S - F	401	0	J - O	816	0
F - R	0	-615	O - L	0	-1423
R - G	488	0	L - N	897	0

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.98
BC: From 13 plf at 0.00 to 13 plf at 23.98
TC: 1500 lb Conc. Load at 14.06

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

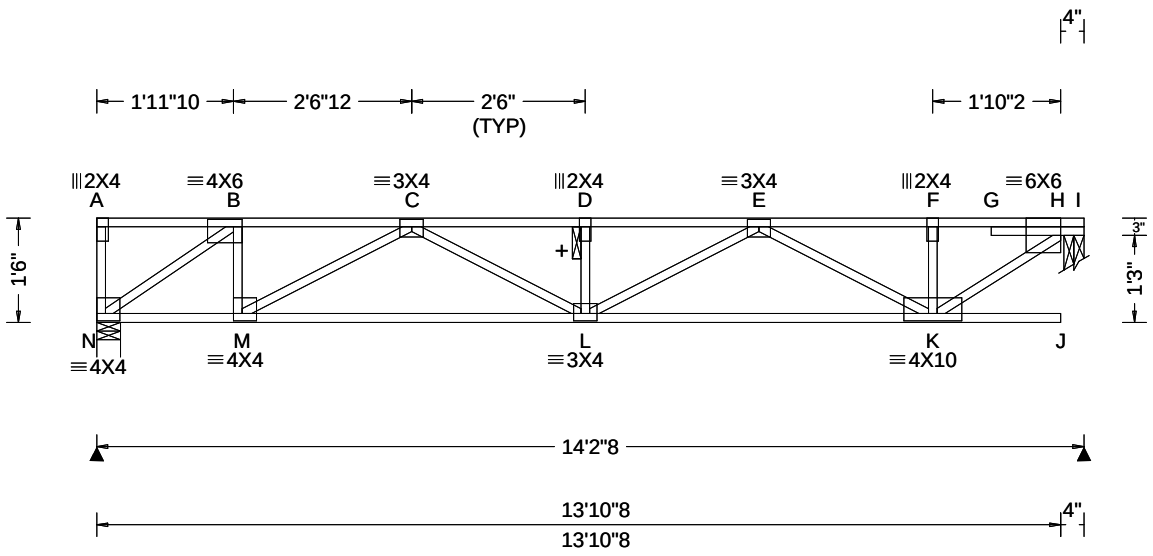
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97180 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F13	Cust: R 9316 JRef:1XdX93160004 T23 / DrwNo: 076.22.1315.41816 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.096	D	999	480
VERT(CL): 0.179	D	942	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.030	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.620
Max BC CSI: 0.537
Max Web CSI: 0.329

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	702	/-	/-		/-	/-	/-
H	714	/-	/-		/-	/-	/-

N Brg Wid = 4.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-943	E - F	0	-943
C - D	0	-1836	F - H	0	-942
D - E	0	-1836			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	905	0	L - K	1574	0
M - L	1582	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1104	E - K	0	-721
B - M	416	0	K - H	1166	0
M - C	0	-734			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

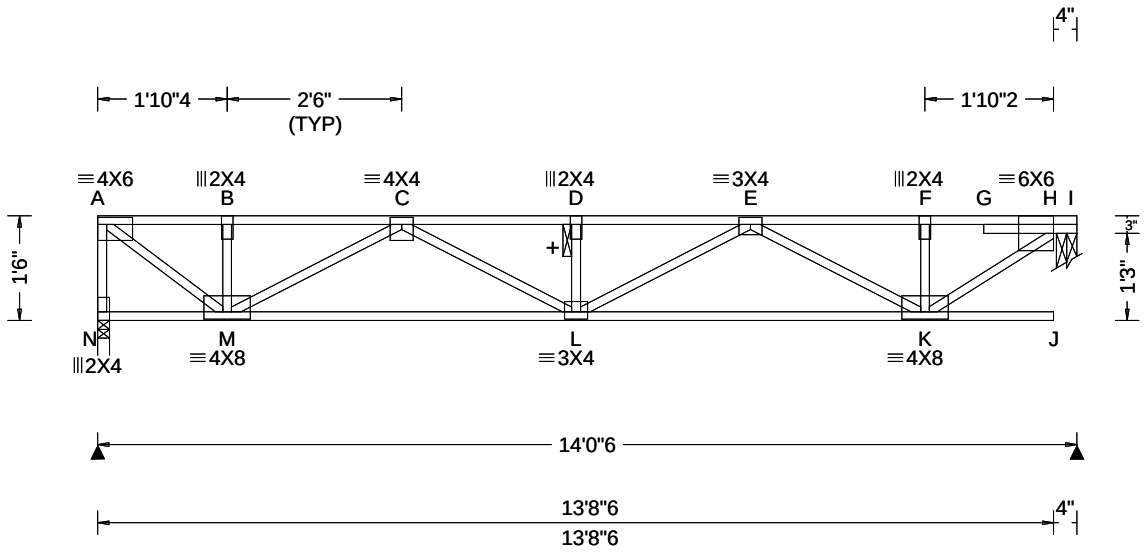
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97182 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F14	Cust: R 9316 JRef:1XdX93160004 T15 / DrwNo: 076.22.1315.41640 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.093	D	999	480
VERT(CL): 0.174	D	955	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.612
Max BC CSI: 0.524
Max Web CSI: 0.324

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	693	/-	/-		/-	/-	/-
H	706	/-	/-		/-	/-	/-

N Brg Wid = 2.0 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-849	D - E	0	-1791
B - C	0	-849	E - F	0	-929
C - D	0	-1791	F - H	0	-929

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1520	0	L - K	1546	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-690	E - K	0	-703
A - M	1057	0	K - H	1150	0
M - C	0	-766			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

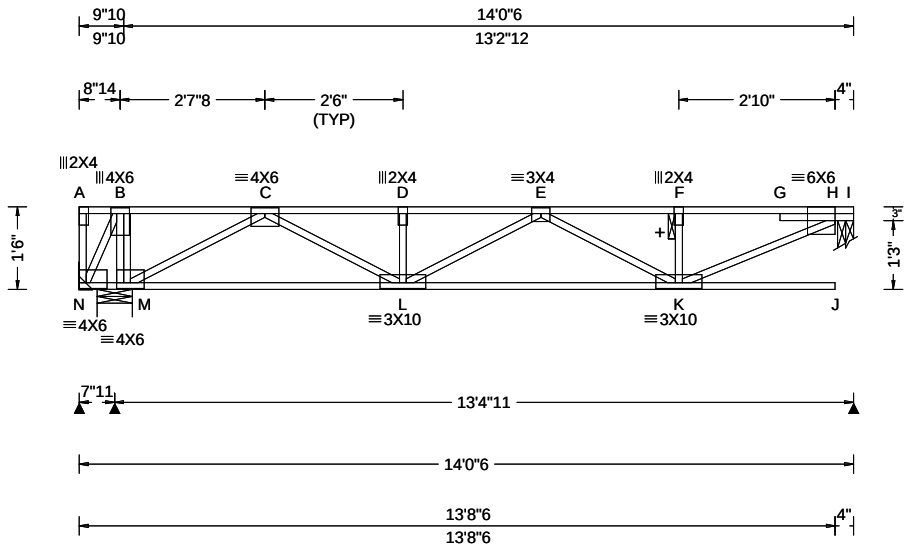
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97184 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F15	Cust: R 9316 JRef:1XdX93160004 T26 / DrwNo: 076.22.1315.41777 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.200	J	780	480
VERT(CL): 0.320	J	487	360
HORZ(LL): 0.011	C	-	-
HORZ(TL): 0.020	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.961
Max BC CSI: 0.588
Max Web CSI: 0.339

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-708	/-	/-	/-	/-
N	1480	/-	/-	/-	/-	/-
H	618	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
N Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	400	0	E - F	0	-1087
C - D	0	-1207	F - H	0	-1088
D - E	0	-1207			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	600	0	L - K	1318	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	685	0	C - L	693	0
B - M	0	-840	K - H	1201	0
M - C	0	-1141			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -708# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

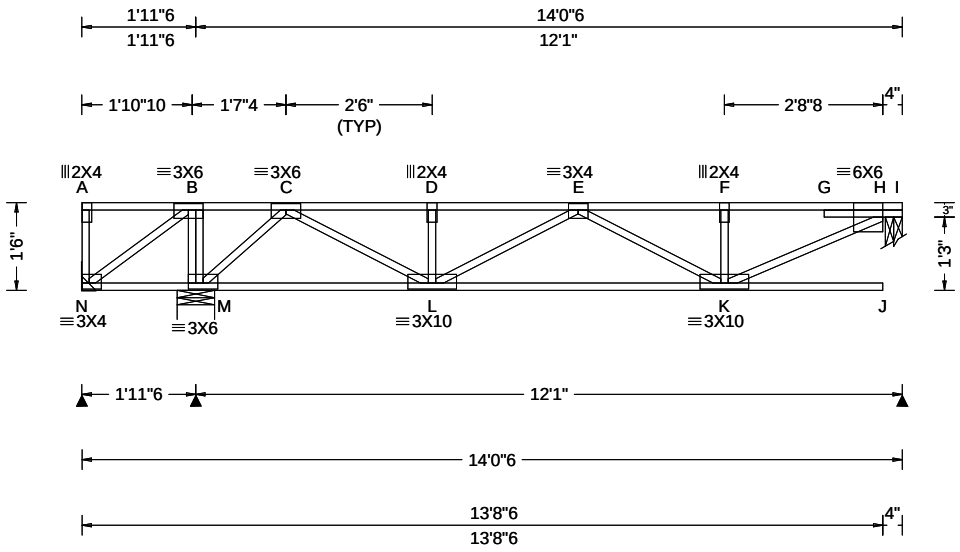
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97186 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F16	Cust: R 9316 JRef:1XdX93160004 T33 / DrwNo: 076.22.1315.42414 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.159	J	897	480
VERT(CL): 0.249	J	570	360
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.283

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
N	- /-323	/-	/-	/-	/-	
M	1131 /-	/-	/-	/-	/-	
I	547 /-	/-	/-	/-	/-	

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	511	0	E - F	0	-901
C - D	0	-818	F - H	0	-903
D - E	0	-818			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-469	L - K	1034	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	580	0	C - L	816	0
B - M	0	-512	K - H	1004	0
M - C	0	-842			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

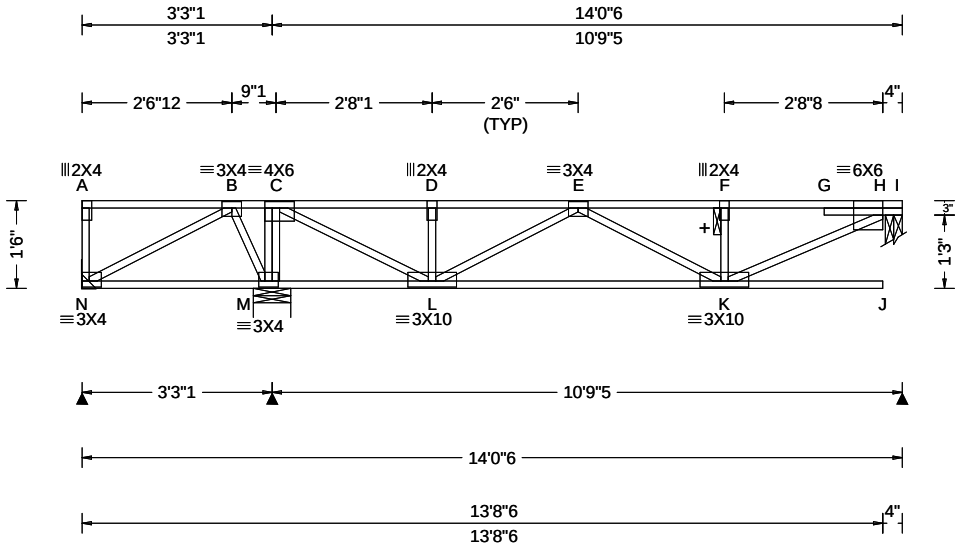
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97188 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F17	Cust: R 9316 JRef:1XdX93160004 T20 / DrwNo: 076.22.1315.42976 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	870	480
VERT(CL): 0.233	J	550	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.749
Max BC CSI: 0.437
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	57	/-122	/-	/-	/-	/-
M	959	/-	/-	/-	/-	/-
I	491	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	423	0	E - F	0	- 784
C - D	0	- 500	F - H	0	- 785
D - E	0	- 500			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	818	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	- 627	K - H	874	0
C - L	963	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

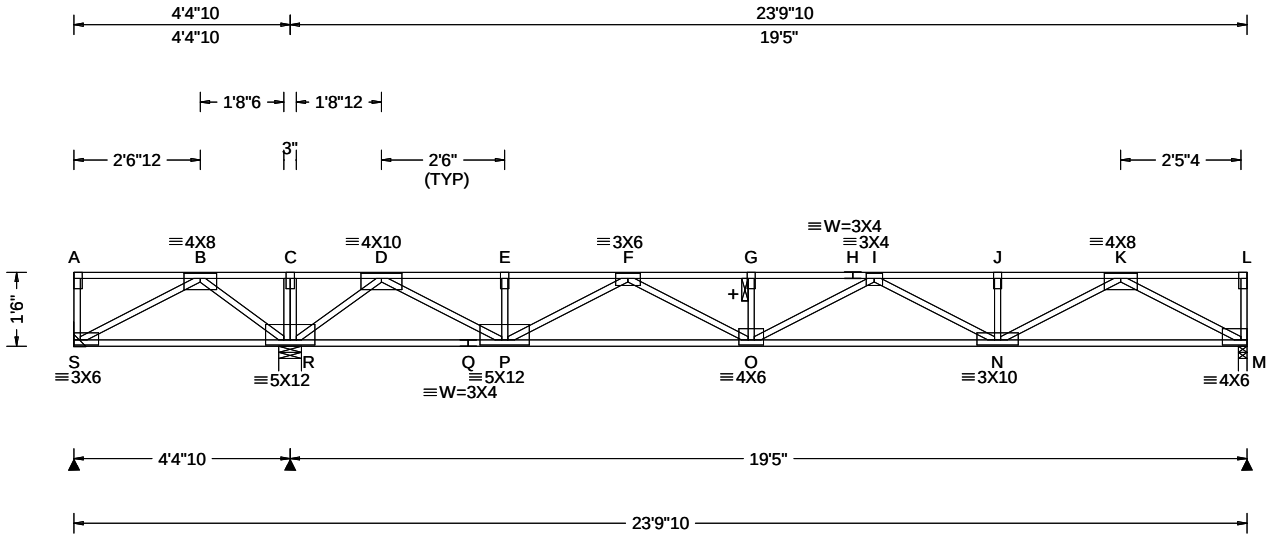
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97190 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18	Cust: R 9316 JRef:1XdX93160004 T16 / DrwNo: 076.22.1315.41322 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	G	999	480
VERT(CL): 0.371	G	628	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.796
Max Web CSI: 0.466

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	-	/-458	/-	/-	/-	/-
R	1886	/-	/-	/-	/-	/-
M	844	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1750	0	G - H	0	- 2537
C - D	1750	0	H - I	0	- 2537
D - E	0	- 1040	I - J	0	- 2220
E - F	0	- 1040	J - K	0	- 2220
F - G	0	- 2537			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	- 955	P - O	1987	0
R - Q	0	- 427	O - N	2580	0
Q - P	0	- 427	N - M	1352	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1084	0	F - O	631	0
B - R	0	- 1117	I - N	0	- 411
R - D	0	- 1648	N - K	991	0
D - P	1653	0	K - M	0	- 1535
P - F	0	- 1085			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -458# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

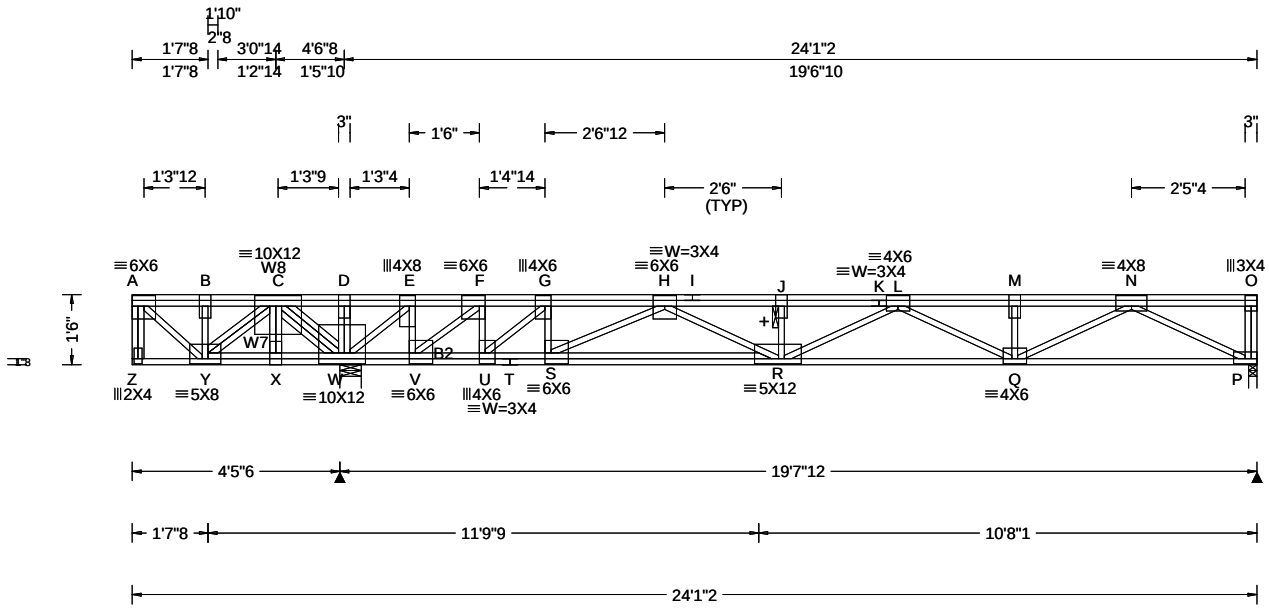
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97192 / SY42 FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18G	Cust: R 9316 JRef:1XdX93160004 T17 / DrwNo: 076.22.1315.42597 / NDW 03/17/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.124 Z	435	480
VERT(CL):	0.263 Z	204	360
HORZ(LL):	-0.027 A	-	-
HORZ(TL):	0.058 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.885
Max BC CSI: 0.247
Max Web CSI: 0.249

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	8317	/-	/-	/-	/-	/-
P	962	/-165	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	420	0	H - I	1554	-1705
B - C	420	0	I - J	1554	-1705
C - D	4753	0	J - K	1551	-1711
D - E	4749	0	K - L	1551	-1711
E - F	4209	-367	L - M	534	-1347
F - G	3615	-827	M - N	534	-1347
G - H	3087	-1193			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	-1228	T - S	1169	-3130
X - W	0	-1219	S - R	1563	-2265
W - V	329	-4254	R - Q	1631	-993
V - U	793	-3663	Q - P	784	-222
U - T	1169	-3130			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	-548	G - S	539	0
Y - C	1053	0	S - H	0	-1139
C - W	0	-4787	H - R	869	0
W - E	0	-999	R - L	89	-626
E - V	636	0	L - Q	518	-321
V - F	0	-1035	Q - N	636	-353
F - U	652	0	N - P	250	-860
U - G	0	-919			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7,W8 4x2 DF-L 2400f-2.0E;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes

All plates are 3X6 except as noted.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

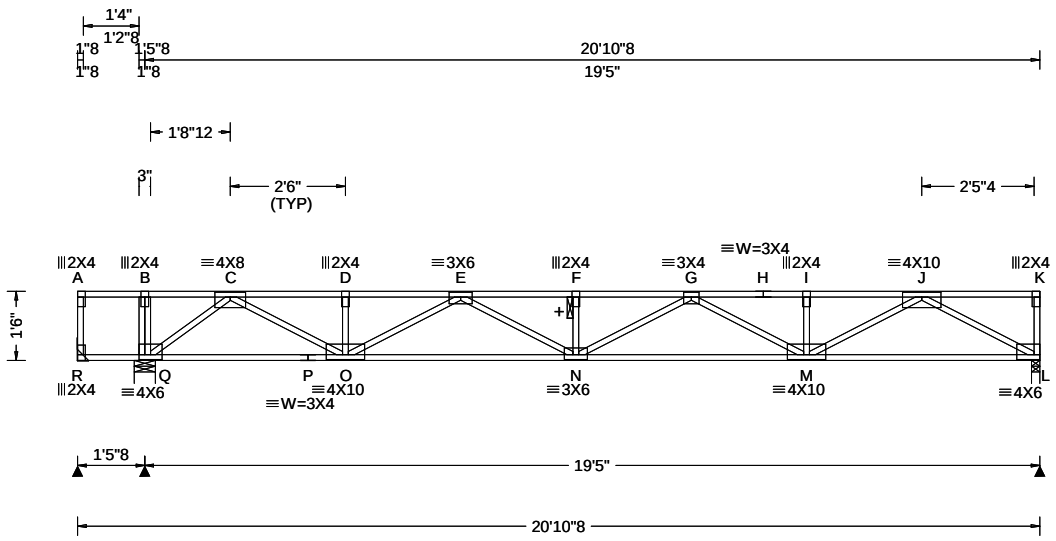
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 9796 / SY42 FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19	Cust: R 9316 JRef:1XdX93160004 T34 / DrwNo: 076.22.1315.55011 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.246	F	943	480
VERT(CL): 0.462	F	502	360
HORZ(LL): 0.038	L	-	-
HORZ(TL): 0.072	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.485
Max BC CSI: 0.960
Max Web CSI: 0.397

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	27	/-42	/-	/-	/-	/-
Q	1134	/-	/-	/-	/-	/-
L	962	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	- 2320	G - H	0	- 2651
D - E	0	- 2320	H - I	0	- 2651
E - F	0	- 3393	I - J	0	- 2651
F - G	0	- 3393			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1089	0	N - M	3224	0
P - O	1089	0	M - L	1570	0
O - N	3055	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - C	0	- 1383	G - M	0	- 654
C - O	1407	0	M - J	1233	0
O - E	0	- 839	J - L	0	- 1782
E - N	387	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

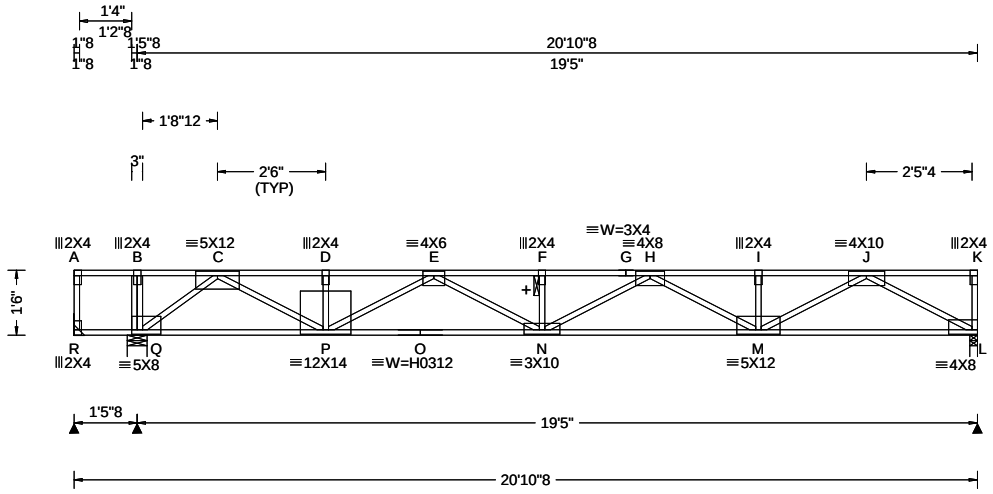
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 9798 / SY42 FROM:	Ply: 2 Qty: 4	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19G	Cust: R 9316 JRef:1XdX93160004 T8 / DrwNo: 076.22.1315.54878 / NDW 03/17/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.290	F	799	480
VERT(CL): 0.545	F	426	360
HORZ(LL): 0.041	C	-	-
HORZ(TL): 0.076	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.583
Max BC CSI: 0.585
Max Web CSI: 0.629

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	24	/-58	/-	/-	/-	/-
Q	3942	/-	/-	/-	/-	/-
L	1997	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-3789	G - H	0	-5138
D - E	0	-3789	H - I	0	-3219
E - F	0	-5138	I - J	0	-3219
F - G	0	-5138			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1835	0	N - M	4478	0
P - O	4877	0	M - L	1748	0
O - N	4877	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - Q	0	-465	F - N	0	-473
Q - C	0	-2340	N - H	753	0
C - P	2229	0	H - M	0	-1437
D - P	0	-467	M - J	1679	0
P - E	0	-1242	J - L	0	-1984

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
Webs: 4x2 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 20.88
BC: From 13 plf at 0.00 to 13 plf at 20.88
TC: 443 lb Conc. Load at 0.94
TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27 7.60, 8.94,10.27,11.60,12.94

Deflection
Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

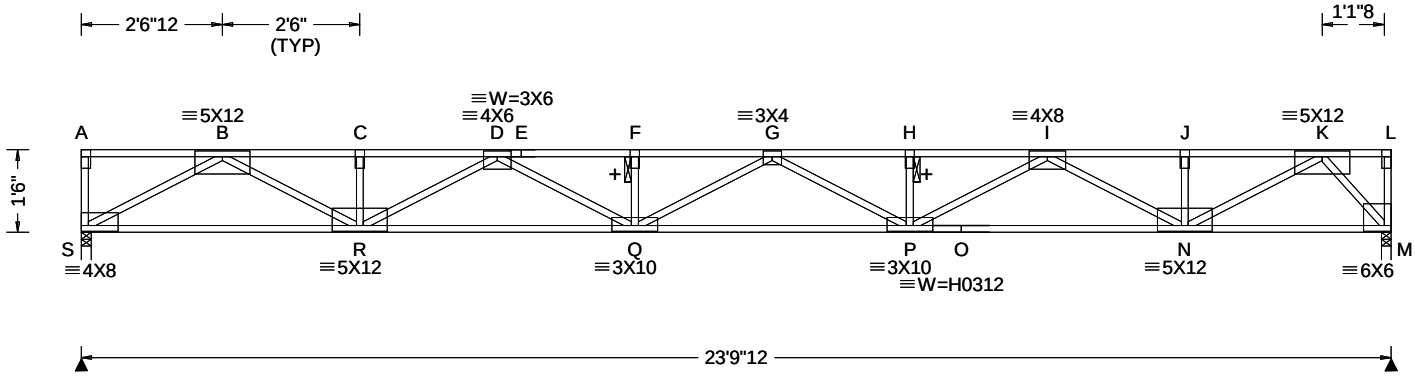
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97194 / SY42 FROM:	Ply: 1 Qty: 32	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F21	Cust: R 9316 JRef:1XdX93160004 T19 / DrwNo: 076.22.1315.41247 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.419 G	682	480
VERT(CL):	0.785 G	364	360
HORZ(LL):	0.056 M	-	-
HORZ(TL):	0.104 M	-	-

Creep Factor: 2.0
Max TC CSI: 0.442
Max BC CSI: 0.664
Max Web CSI: 0.556

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	1191	/-	/-	/-	/-	/-
M	1191	/-	/-	/-	/-	/-

S Brg Wid = 2.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3491	G - H	0	-4826
C - D	0	-3491	H - I	0	-4826
D - E	0	-5062	I - J	0	-2773
E - F	0	-5062	J - K	0	-2773
F - G	0	-5062			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	1995	0	P - O	4000	0
R - Q	4479	0	O - N	4000	0
Q - P	5145	0	N - M	1047	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2264	P - I	942	0
B - R	1707	0	I - N	0	-1401
R - D	0	-1127	N - K	1969	0
D - Q	665	0	K - M	0	-1557

Lumber
Top chord: 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

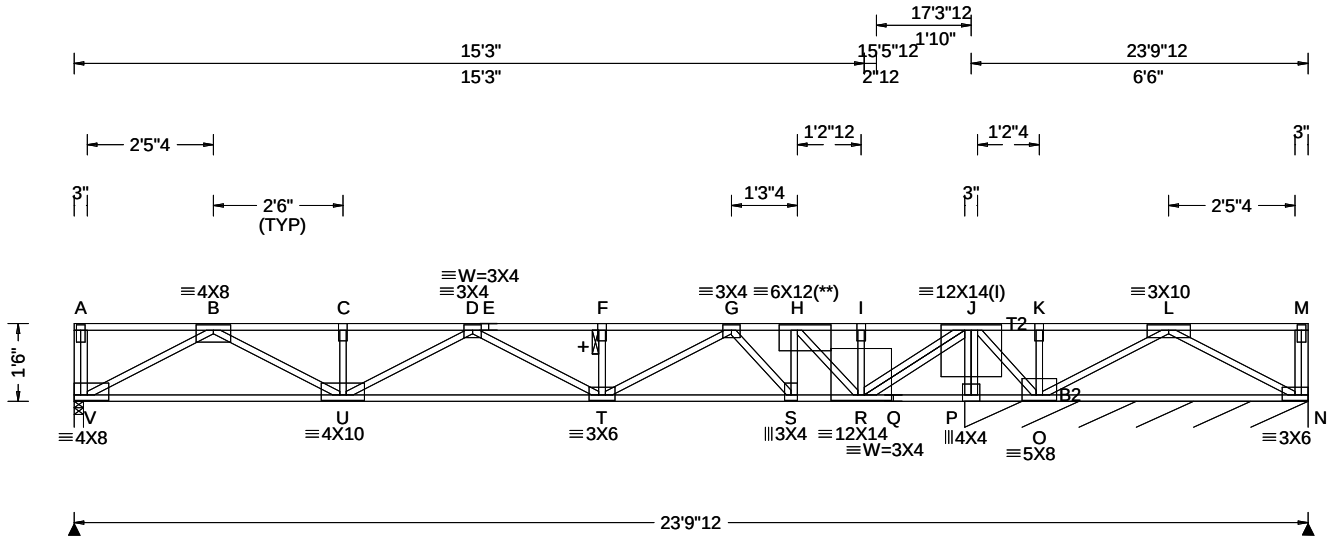
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97196 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F22	Cust: R 9316 JRef:1XdX93160004 T2 / DrwNo: 076.22.1315.43294 / NDW 03/17/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.179 F 999 480 VERT(CL): 0.335 F 613 360 HORZ(LL): 0.026 B - - HORZ(TL): 0.049 B - - Creep Factor: 2.0 Max TC CSI: 0.504 Max BC CSI: 0.472 Max Web CSI: 0.548 VIEW Ver: 21.02.00.1005.17

Lumber

Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)

TC: From	87 plf at	0.00 to	87 plf at	23.81
BC: From	13 plf at	0.00 to	13 plf at	23.81

TC: 1500 lb Conc. Load at 13.90

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	441	/-	/-	/-	/-	/-
N		/-246				

V Brg Wid = 2.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2565	G - H	0	-2521
C - D	0	-2565	H - I	0	-698
D - E	0	-3256	I - J	0	-698
E - F	0	-3256	J - K	1825	0
F - G	0	-3256	K - L	1825	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1507	0	R - Q	0	-2561
U - T	3113	0	Q - P	0	-2561
T - S	2904	0	P - O	0	-2561
S - R	2477	0	O - N	0	-681

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1714	H - R	0	-2670
B - U	1208	0	R - J	3882	0
U - D	0	-625	J - P	0	-3088
T - G	402	0	J - O	1065	0
G - S	0	-598	O - L	0	-1307
S - H	486	0	L - N	779	0

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

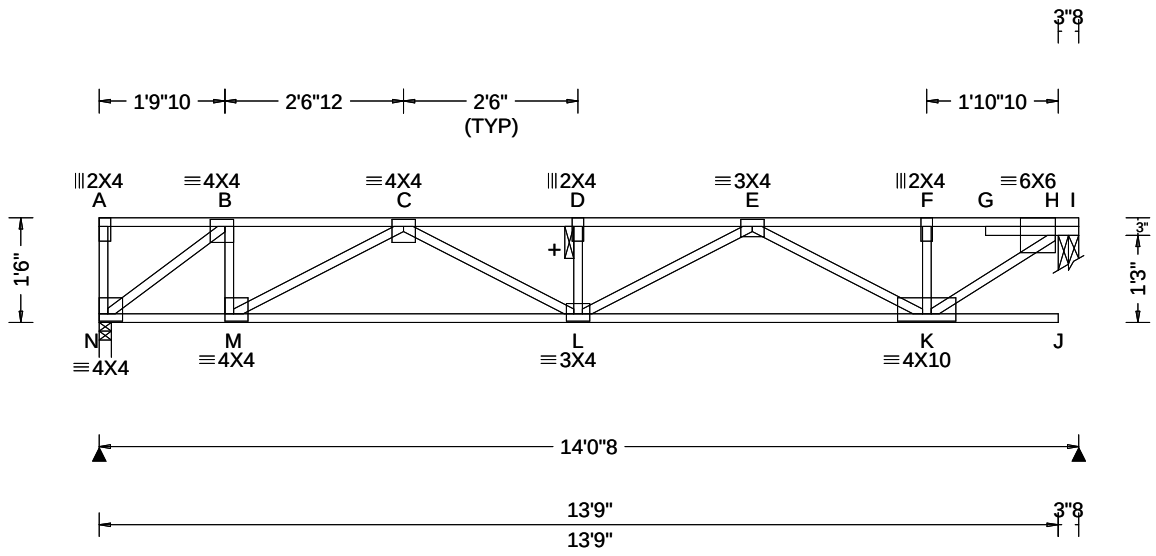
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97198 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F23	Cust: R 9316 JRef:1XdX93160004 T25 / DrwNo: 076.22.1315.41681 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.092	D	999	480
VERT(CL): 0.172	D	970	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.029	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.613
Max BC CSI: 0.522
Max Web CSI: 0.325

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
N	694	/-	/-	/-	/-	/-
H	707	/-	/-	/-	/-	/-

N Brg Wid = 2.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-869	E - F	0	-931
C - D	0	-1793	F - H	0	-930
D - E	0	-1793			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	831	0	L - K	1548	0
M - L	1525	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1045	E - K	0	-704
B - M	425	0	K - H	1152	0
M - C	0	-752			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

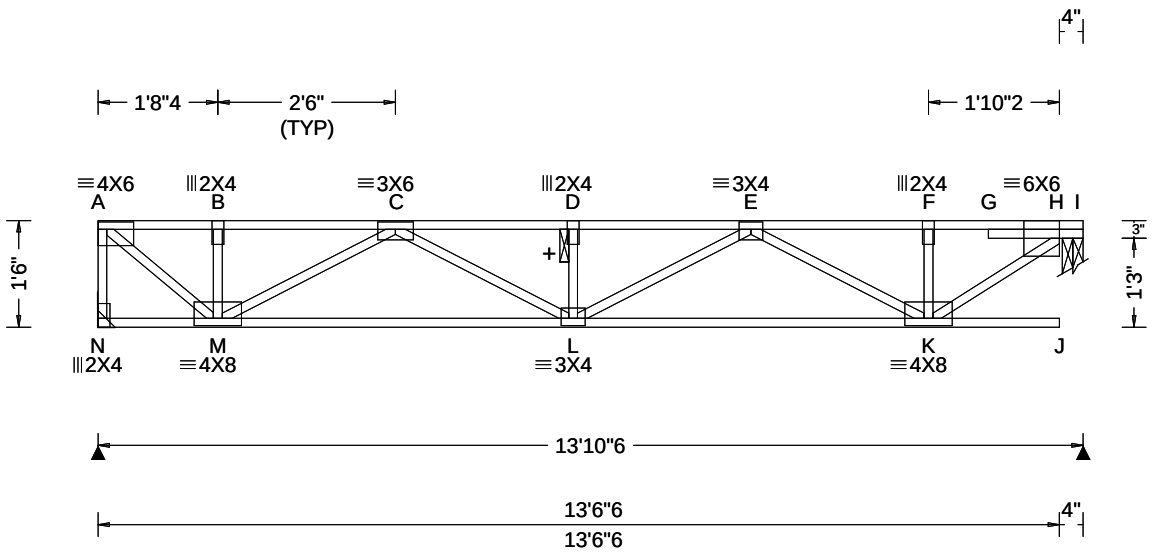
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97200 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F24	Cust: R 9316 JRef:1XdX93160004 T3 / DrwNo: 076.22.1315.41324 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.090	D	999	480
VERT(CL): 0.167	D	982	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.604
Max BC CSI: 0.513
Max Web CSI: 0.320

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	685	/-	/-	/-	/-	/-
H	697	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-776	D - E	0	-1749
B - C	0	-776	E - F	0	-917
C - D	0	-1749	F - H	0	-916

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1463	0	L - K	1518	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-684	E - K	0	-687
A - M	1001	0	K - H	1134	0
M - C	0	-784			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

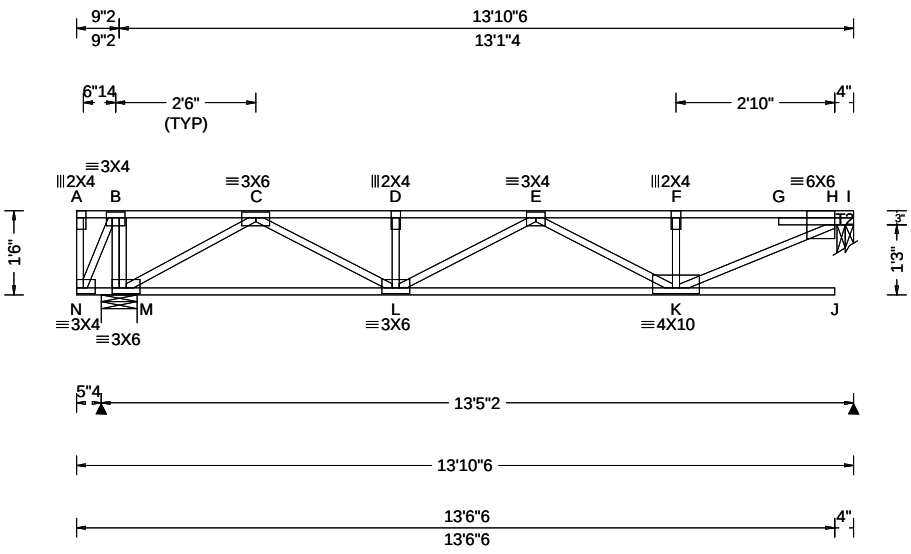
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97202 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F25	Cust: R 9316 JRef:1XdX93160004 T11 / DrwNo: 076.22.1315.42035 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	J	784	480
VERT(CL): 0.316	J	488	360
HORZ(LL): 0.013	A	-	-
HORZ(TL): 0.024	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.609
Max BC CSI: 0.630
Max Web CSI: 0.367

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
M	729	/-	/-		/-	/-	/-
H	659	/-	/-		/-	/-	/-

M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-1447	E - F	0	-1177
D - E	0	-1447	F - H	0	-1178

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	912	0	L - K	1482	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	-1015	K - H	1301	0
C - L	614	0			

Lumber

Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

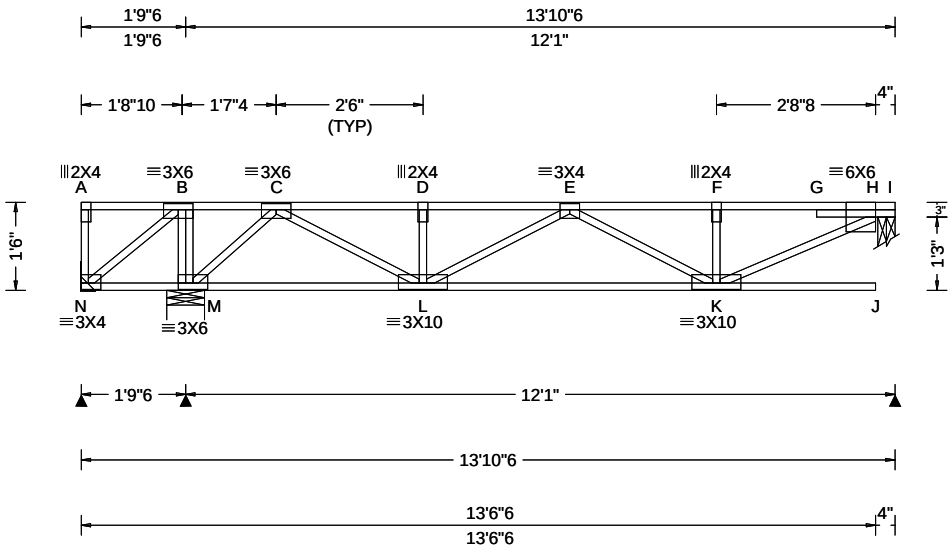
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97204 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F26	Cust: R 9316 JRef:1XdX93160004 T5 / DrwNo: 076.22.1315.41350 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.158	J	897	480
VERT(CL): 0.249	J	570	360
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.284

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-358	/-	/-	/-	/-
M	1154	/-	/-	/-	/-	/-
H	547	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	510	0	E - F	0	-902
C - D	0	-819	F - H	0	-903
D - E	0	-819			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-465	L - K	1035	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	596	0	C - L	815	0
B - M	0	-533	K - H	1005	0
M - C	0	-843			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

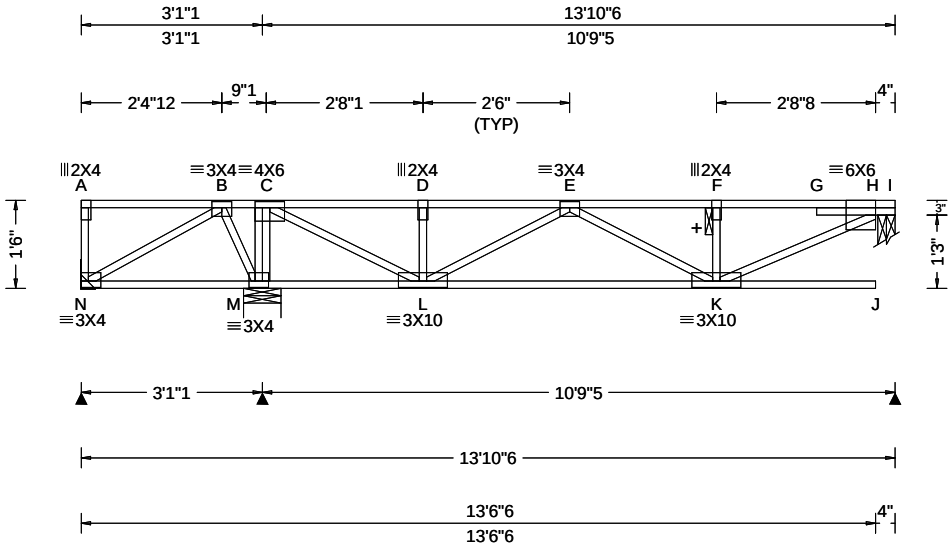
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97206 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F27	Cust: R 9316 JRef:1XdX93160004 T9 / DrwNo: 076.22.1315.41325 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	869	480
VERT(CL): 0.233	J	549	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.748
Max BC CSI: 0.436
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
N	44 /-139	/-	/-	/-	/-	
M	963 /-	/-	/-	/-	/-	
H	491 /-	/-	/-	/-	/-	

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	427	0	E - F	0	- 782
C - D	0	- 495	F - H	0	- 784
D - E	0	- 495			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	815	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	- 633	K - H	872	0
C - L	964	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

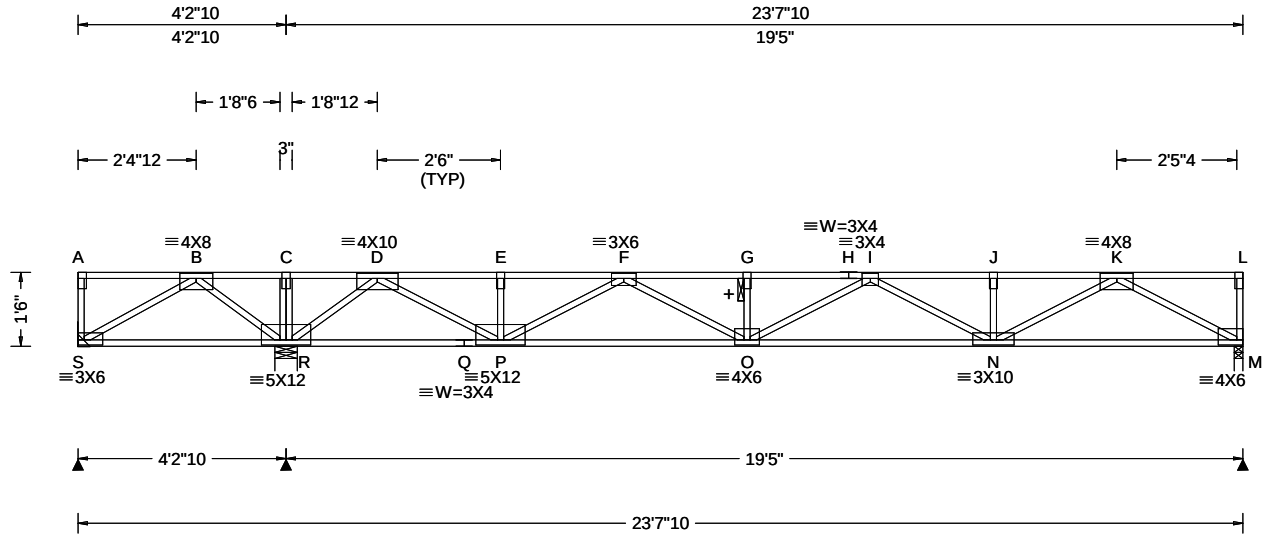
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97208 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F28	Cust: R 9316 JRef:1XdX93160004 T10 / DrwNo: 076.22.1315.41343 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.196	G	999	480
VERT(CL): 0.369	G	630	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.795
Max Web CSI: 0.467

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	-	/-490	/-	/-	/-	/-
R	1906	/-	/-	/-	/-	/-
M	843	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1763	0	G - H	0	- 2527
C - D	1763	0	H - I	0	- 2527
D - E	0	- 1026	I - J	0	- 2216
E - F	0	- 1026	J - K	0	- 2216
F - G	0	- 2527			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	- 944	P - O	1976	0
R - Q	0	- 440	O - N	2573	0
Q - P	0	- 440	N - M	1350	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1088	0	F - O	633	0
B - R	0	- 1142	I - N	0	- 408
R - D	0	- 1649	N - K	988	0
D - P	1656	0	K - M	0	- 1532
P - F	0	- 1087			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -490# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

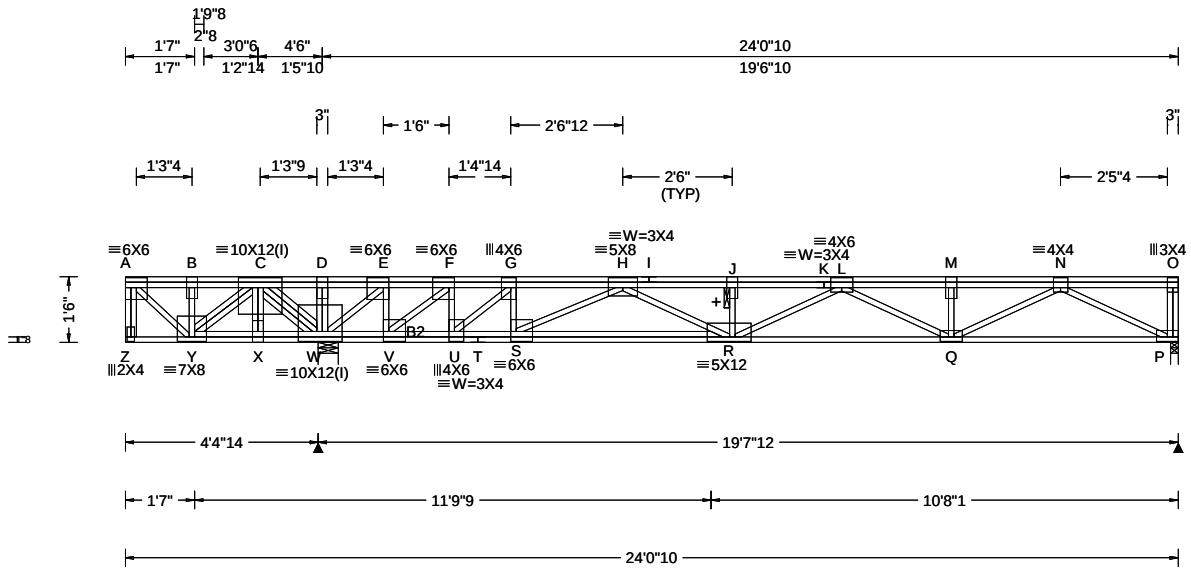
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97210 / SY42 FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F28G	Cust: R 9316 JRef:1XdX93160004 T12 / DrwNo: 076.22.1315.41306 / NDW 03/17/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.120	A	443	480
VERT(CL): 0.268	Z	198	360
HORZ(LL): -0.025	A	-	-
HORZ(TL): 0.057	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.433
Max BC CSI: 0.260
Max Web CSI: 0.271

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	8750	/-	/-	/-	/-	/-
P	618	/-243	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	597	0	H - I	1855	- 383
B - C	597	0	I - J	1855	- 383
C - D	5342	0	J - K	1853	- 389
D - E	5337	0	K - L	1853	- 389
E - F	4767	0	L - M	685	- 689
F - G	4126	0	M - N	685	- 689
G - H	3551	0			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	- 1645	T - S	0	- 3597
X - W	0	- 1635	S - R	0	- 2646
W - V	0	- 4815	R - Q	647	- 1215
V - U	0	- 4178	Q - P	456	- 296
U - T	0	- 3597			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	- 789	G - S	577	0
Y - C	1366	0	S - H	0	- 1230
C - W	0	- 5021	H - R	961	0
W - E	0	- 1030	R - L	0	- 716
E - V	677	0	L - Q	599	0
V - F	0	- 1093	Q - N	264	- 439
F - U	694	0	N - P	330	- 495
U - G	0	- 980			

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.05
BC: From 13 plf at 0.00 to 13 plf at 24.05
TC: 1129 lb Conc. Load at 0.12
TC: 5500 lb Conc. Load at 3.03

Plating Notes

All plates are 3X6 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

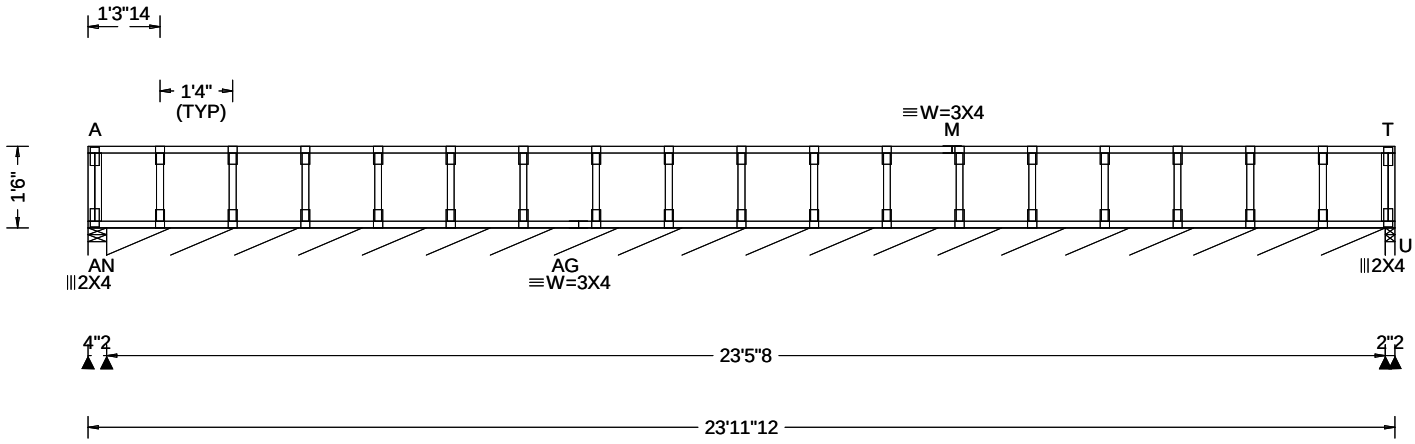
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 7

SEQN: 97212 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L11	Cust: R 9316 JRef:1XdX93160004 T29 / DrwNo: 076.22.1315.41953 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	T	999	480
VERT(CL): 0.001	T	999	360
HORZ(LL): -0.003	B	-	-
HORZ(TL): 0.005	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.060
Max BC CSI: 0.013
Max Web CSI: 0.018

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AN	68 / -	/ -	/ -	/ -	/ -
AN	*97 / -	/ -	/ -	/ -	/ -
U	64 / -	/ -	/ -	/ -	/ -

AN Brg Wid = 4.1 Min Req = 1.5 (Truss)
AN Brg Wid = 281 Min Req = -
U Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AN, AN, & U are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

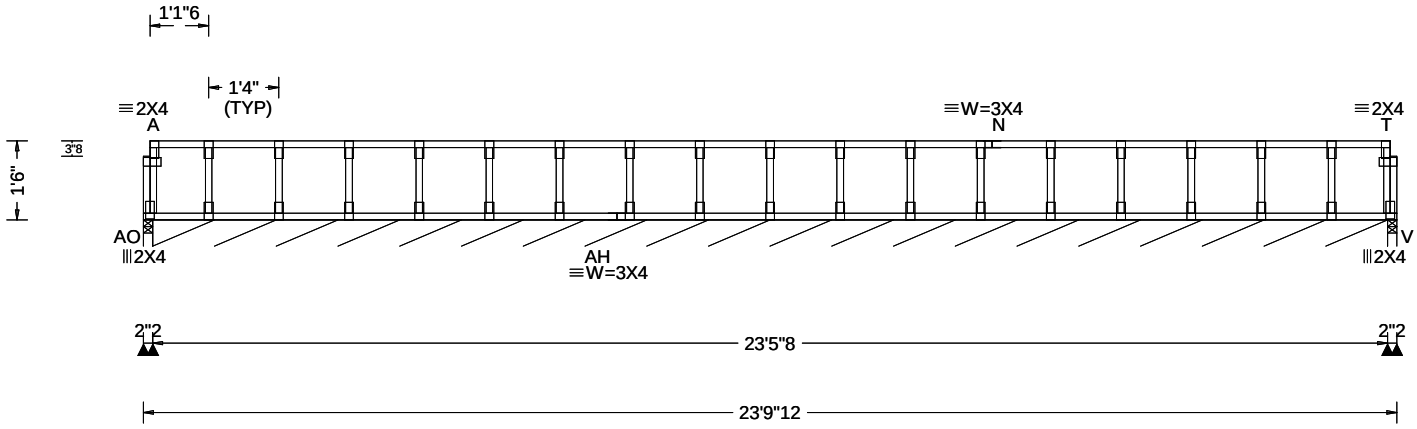
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 97214 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L21	Cust: R 9316 JRef:1XdX93160004 T30 / DrwNo: 076.22.1315.42179 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	T	999	480
VERT(CL): 0.000	T	999	360
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.057
Max BC CSI: 0.009
Max Web CSI: 0.018

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AO	48	/-	/-	/-	/-	/-
AO	*97	/-	/-	/-	/-	/-
V	48	/-	/-	/-	/-	/-

AO Brg Wid = 2.1 Min Req = 1.5 (Truss)
AO Brg Wid = 281 Min Req = -
V Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AO, AO, & V are a rigid surface.
Members not listed have forces less than 375#

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing
Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 2X4 except as noted.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

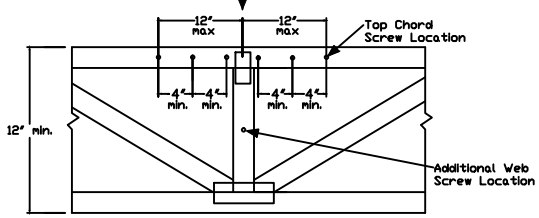
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.

Max. Concentrated Load per Chart Below

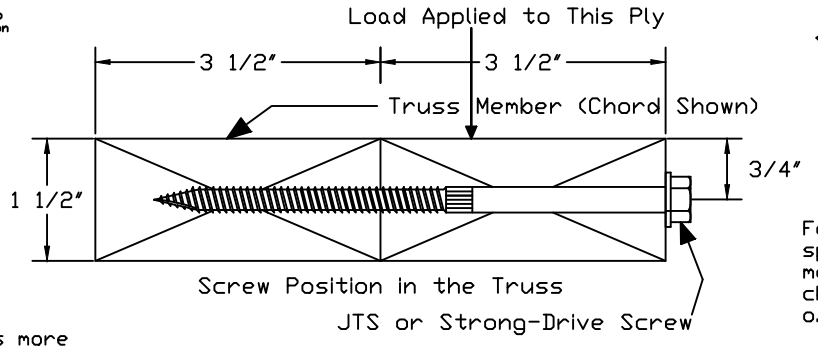


Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

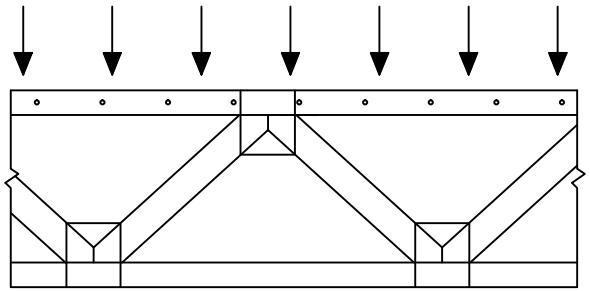
For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

Refer to Alpine sealed drawing for individual truss design.



Max. Uniform Load per Chart Below



For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

TC LL		PSF
TC DL		PSF
BC DL		PSF
BC LL		PSF
TOT. LD.		PSF
DUR. FAC.	1.00	
SPACING		

REF	SY42 Connection
DATE	01/19/2018
DRWG	CNSY42PL0118

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

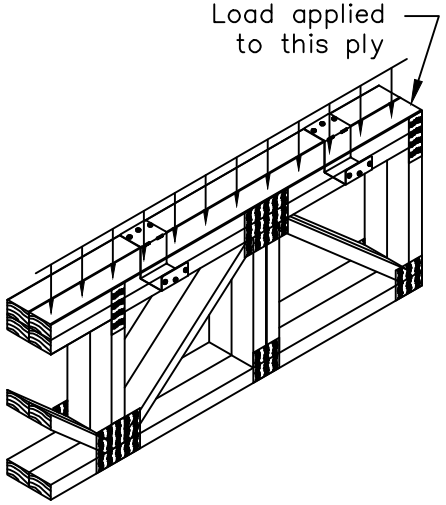
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL

FOR DOWNWARD LOADS ONLY

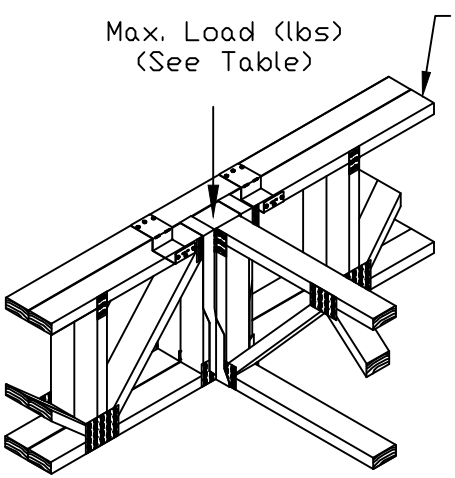
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application



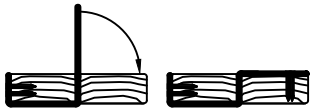
Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

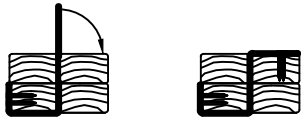
Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.

2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

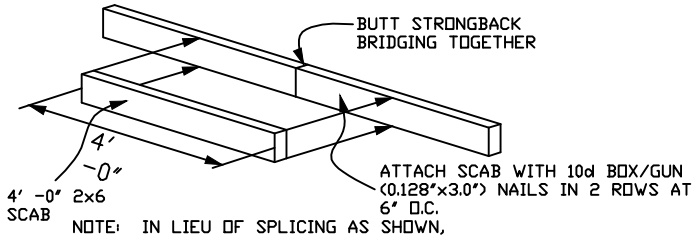
ALPINE® ITW COMPANY
[illegible] Earth City Expressway
[illegible], MO 63045

DUR. FAC. ALL

REF	SY42 Connection
DATE	10/01/14
DRWG	LSCSYX2A1014

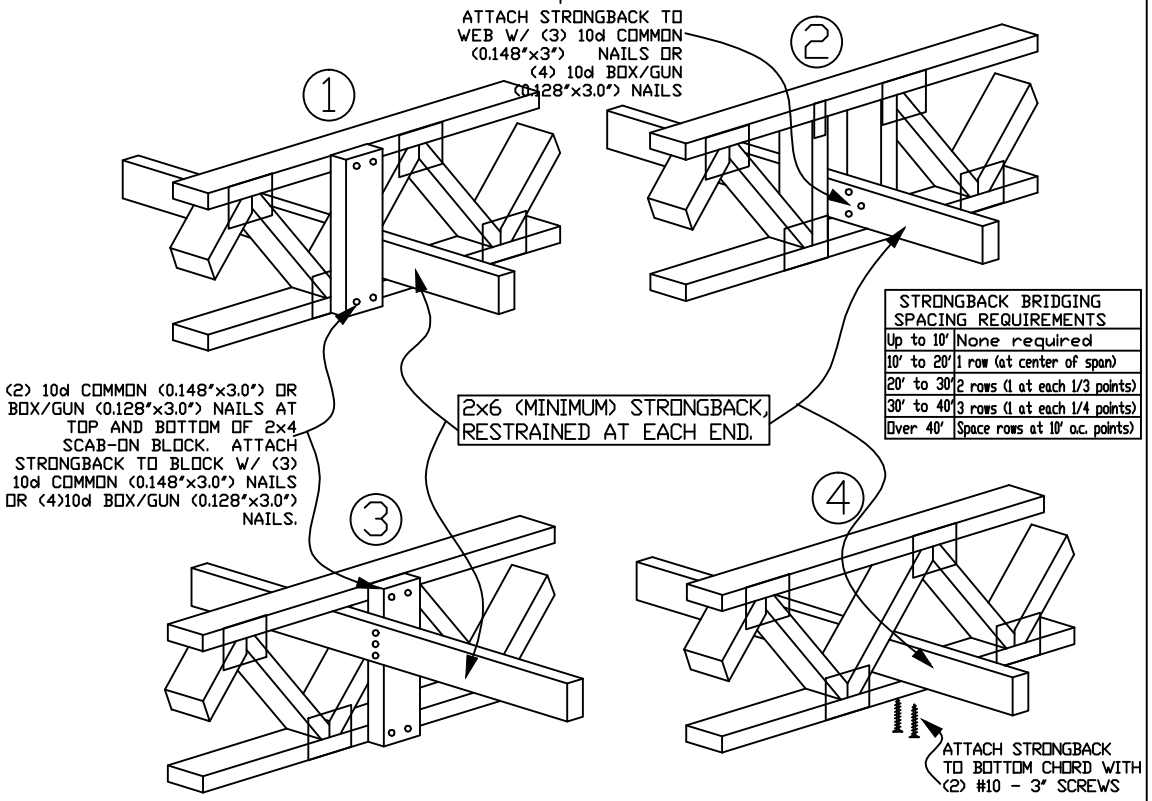
03/17/2022

STRONGBACK BRIDGING RECOMMENDATIONS



STRONGBACK BRIDGING SPLICE DETAIL

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING SPACING REQUIREMENTS	
Up to 10'	None required
10' to 20'	1 row (at center of span)
20' to 30'	2 rows (1 at each 1/3 points)
30' to 40'	3 rows (1 at each 1/4 points)
Over 40'	Space rows at 10' o.c. points)

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

- All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

ALPINE® ITW COMPANY
Earth City Expressway
63045

*****WARNING*** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
*****IMPORTANT*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

TC LL	PSF	REF STRONGBACK
TC DL	PSF	DATE 10/01/14
BC DL	PSF	DRWG STRBRIBR1014
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.	1.00	
SPACING		

Building 7

B D C

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 10, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group Truss Roof Layout Shop Drawings	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Building 7

Group 7 Roof Layout

Total Truss Quantity = 327.

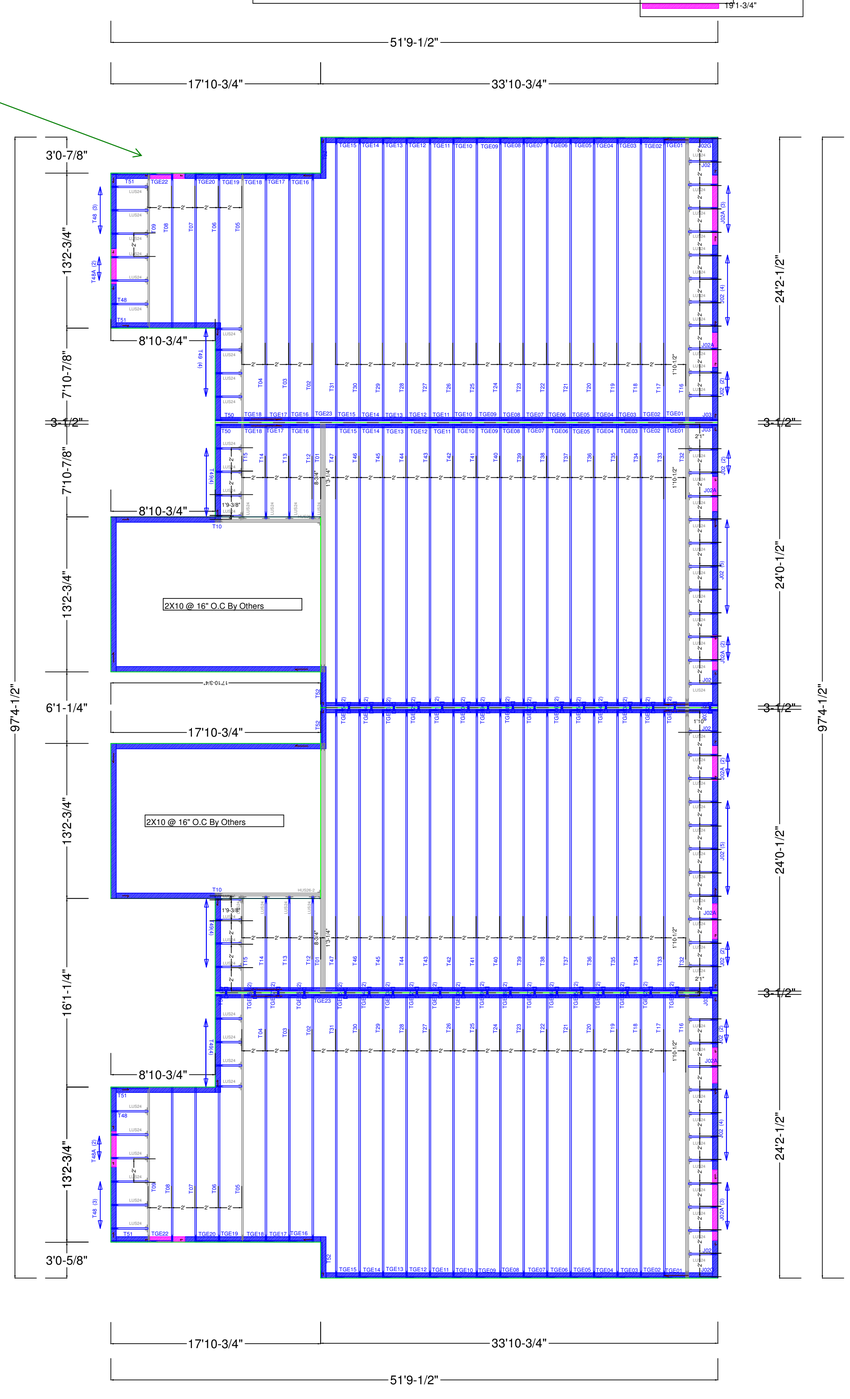
Total Plan Area with OHs = 4542 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
	= HUS26-2	3	
	= LUS24	78	Simpson

BEARING WALL & BEAM HEIGHTS
19'
19'1-3/4"

Revised per TR,i comment



REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 5/23/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRi ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

(3472) 05/10/2022 BY CB

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

Job Name: McCambridge Brothers Construction

Designer: Juan R Quiroz

Date: 4/29/2022

Reference #: JB-220680

mill Creek
3363 S. Halstead Rd.
Haskell, KS 67905
(316) 830-6108

ROOF TRUSS LAYOUT (NTS)

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

Building 7

Bruce Alan Feldmann
Engineer
MO# E-023204

04/29/2022

REVIEWED ☑ DATE RECIEVED:
REVIEWED AS NOTED ☐ DATE REVIEWED: 5/23/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

ALPINE AN ITW COMPANY

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED. REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/10/2022 *BY:* CB

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

Site Information:	**Page 1:**
Customer: Mill Creek Truss	*Job Number:* JB-220680
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1Xf493160001
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 109 *Building Type:* Closed	*Design Loading (psf):* 60.00

This package contains general notes pages, 78 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	119.22.1045.17004	J02	2	119.22.1045.11259	J02G
3	119.22.1045.11544	J03	4	119.22.1045.16097	T01
5	119.22.1045.11757	T02	6	119.22.1045.16783	T03
7	119.22.1045.13134	T04	8	119.22.1045.11639	T05
9	119.22.1045.18745	T06	10	119.22.1045.12233	T07
11	119.22.1045.16189	T10	12	119.22.1045.11484	T12
13	119.22.1045.14670	T13	14	119.22.1045.18947	T14
15	119.22.1045.11181	T15	16	119.22.1137.59733	T17
17	119.22.1045.12917	T18	18	119.22.1045.13493	T19
19	119.22.1045.12661	T20	20	119.22.1045.13870	T21
21	119.22.1138.02307	T22	22	119.22.1045.18996	T23
23	119.22.1045.17657	T24	24	119.22.1045.11774	T25
25	119.22.1045.17413	T26	26	119.22.1045.15870	T27
27	119.22.1045.11657	T28	28	119.22.1045.14671	T29
29	119.22.1045.11241	T30	30	119.22.1045.18726	T31
31	119.22.1045.15318	T33	32	119.22.1045.13074	T34
33	119.22.1045.13333	T35	34	119.22.1045.17312	T36
35	119.22.1045.19152	T37	36	119.22.1045.16605	T38
37	119.22.1045.17045	T39	38	119.22.1045.12606	T40
39	119.22.1045.14209	T41	40	119.22.1045.15386	T42
41	119.22.1045.15203	T43	42	119.22.1045.13791	T44
43	119.22.1045.15319	T45	44	119.22.1045.12234	T46
45	119.22.1045.13631	T47	46	119.22.1045.11448	T48
47	119.22.1045.17805	T49	48	119.22.1045.16585	T50
49	119.22.1045.18104	T51	50	119.22.1045.17870	T52

Bruce Alan Feldmann
Engineer
MO# E-023204

04/29/2022

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

Site Information:	**Page 2:**
Customer: Mill Creek Truss	*Job Number:* JB-220680
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	119.22.1045.19374	TGE01
53	119.22.1045.18714	TGE03
55	119.22.1045.11614	TGE05
57	119.22.1045.12364	TGE07
59	119.22.1045.15525	TGE09
61	119.22.1045.18447	TGE11
63	119.22.1045.11869	TGE13
65	119.22.1045.17989	TGE15
67	119.22.1045.11239	TGE17
69	119.22.1045.12471	TGE19
71	119.22.1045.15712	TGE23
73	119.22.1137.57290	T16
75	119.22.1045.17584	T48A
77	119.22.1137.47423	T08
79	A11530ENC160118	
81	DEFLCAMB1014	
83	GBLLETIN0118	

Item	Drawing Number	Truss
52	119.22.1045.16463	TGE02
54	119.22.1045.18627	TGE04
56	119.22.1045.11275	TGE06
58	119.22.1045.12892	TGE08
60	119.22.1045.15991	TGE10
62	119.22.1045.11676	TGE12
64	119.22.1045.11274	TGE14
66	119.22.1045.11165	TGE16
68	119.22.1045.11436	TGE18
70	119.22.1045.11240	TGE20
72	119.22.1137.53167	T09
74	119.22.1138.04813	T32
76	119.22.1138.13900	TGE22
78	119.22.1045.12065	J02A
80	BRCLBSUB0119	
82	GABRST160118	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

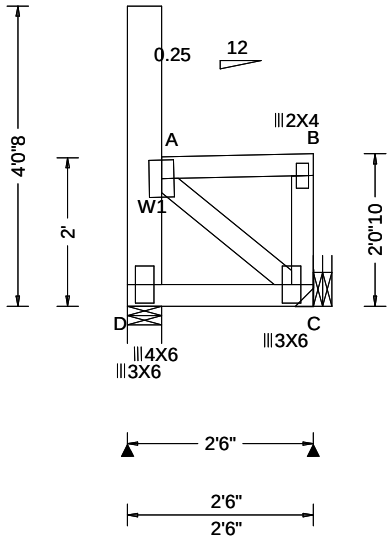
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 7

SEQN: 34728 / MONO FROM:	Ply: 1 Qty: 30	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02	Cust: R 9316 JRef:1Xf493160001 T193 DrwNo: 119.22.1045.17004 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.103
Max BC CSI: 0.066
Max Web CSI: 0.131

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	134	/-	/-	/101	/79	/90
C	160	/-	/-	/144	/63	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
A - C	238	-387

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

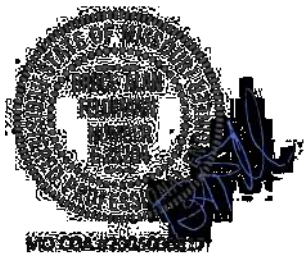
Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

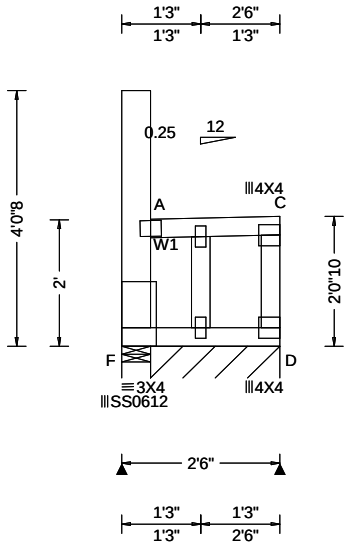
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34606 / GABL FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02G	Cust: R 9316 JRef:1Xf493160001 T109 DrwNo: 119.22.1045.11259 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
18SS, WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.005 A	999	360
VERT(CL):	0.007 A	999	240
HORZ(LL):	0.091 A	-	-
HORZ(TL):	0.104 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.128
Max BC CSI: 0.370
Max Web CSI: 0.163

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	42	/-	/-	/118	/145	/98
D*	124	/-	/-	/120	/57	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 24.5 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

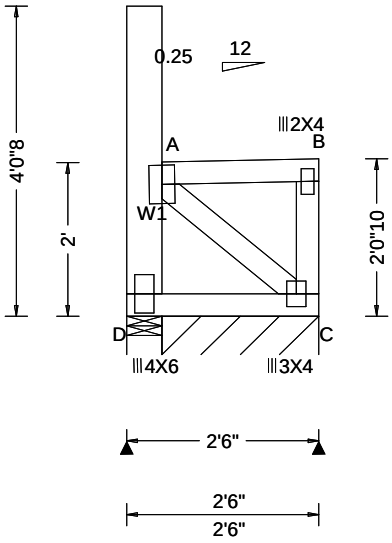
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34607 / MONO FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J03	Cust: R 9316 JRef:1Xf493160001 T133 DrwNo: 119.22.1045.11544 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.103
Max BC CSI: 0.066
Max Web CSI: 0.105

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	134	/-	/-	/110	/85	/98
C*	79	/-	/-	/72	/33	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = 24.5 Min Req = -
Bearings D & D are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

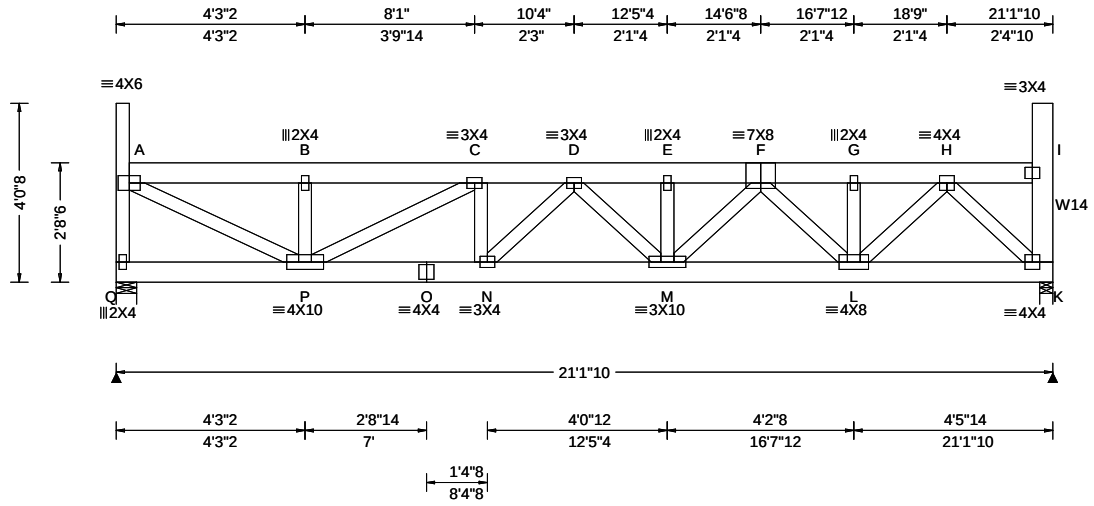
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34681 / FLAT FROM:	Ply: 3 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T01	Cust: R 9316 JRef:1Xf493160001 T10 / DrwNo: 119.22.1045.16097 / NDW 04/29/2022	

3 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.060	D	999	360
VERT(CL): 0.102	D	999	240
HORZ(LL): 0.014	K	-	-
HORZ(TL): 0.024	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.049
Max BC CSI: 0.262
Max Web CSI: 0.269

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	1828	/-	/-	/-	/117	/-
K	2145	/-	/-	/-	/150	/-

Wind reactions based on MWFRS
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
K Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings Q & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	68	- 1022	E - F	154	- 2045
B - C	67	- 1018	F - G	93	- 1282
C - D	115	- 1654	G - H	93	- 1282
D - E	154	- 2045			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	1617	- 112	M - L	1696	- 125
O - N	1617	- 112	L - K	710	- 51
N - M	1870	- 135			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - A	37	- 575	F - L	47	- 605
A - P	1096	- 73	L - H	835	- 62
P - C	52	- 695	H - K	69	- 963
M - F	509	- 42			

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	70 plf at	0.29 to	70 plf at	20.68	
BC: From	50 plf at	0.00 to	50 plf at	21.14	

BC: 1489 lb Conc. Load at 12.90

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.39	1.34	13.80	3.32
20.68	0.00	20.39	1.34	13.80	3.32

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

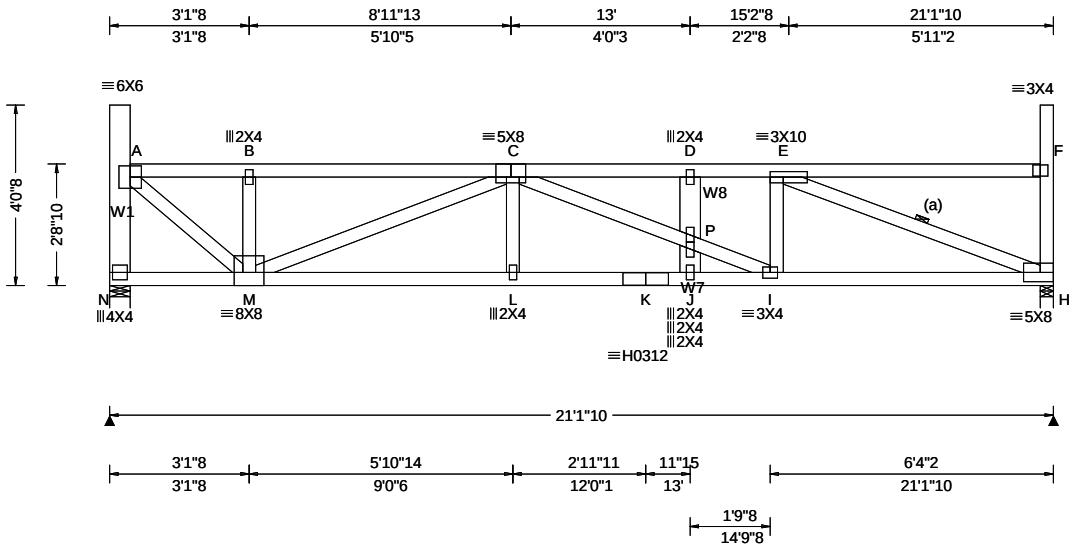
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34608 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T02	Cust: R 9316 JRef:1Xf493160001 T1 / DrwNo: 119.22.1045.11757 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.155	D	999	360
VERT(CL): 0.266	D	953	240
HORZ(LL): 0.046	H	-	-
HORZ(TL): 0.079	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.427
Max BC CSI: 0.928
Max Web CSI: 0.991

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1234	/-	/-	/534	/72	/120
H	1246	/-	/-	/539	/74	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.9 (Truss)
H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	136	- 1501	C - D	137	- 2445
B - C	136	- 1498	D - E	137	- 2445

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2806	- 236	J - I	2806	- 236
L - K	2806	- 236	I - H	2383	- 154
K - J	2806	- 236			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	76	- 1190	P - I	94	- 403
A - M	1788	- 116	I - E	524	- 3
M - C	127	- 1414	E - H	166	- 2524
C - P	93	- 386			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.32	13.12	3.16
20.84	0.00	20.39	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

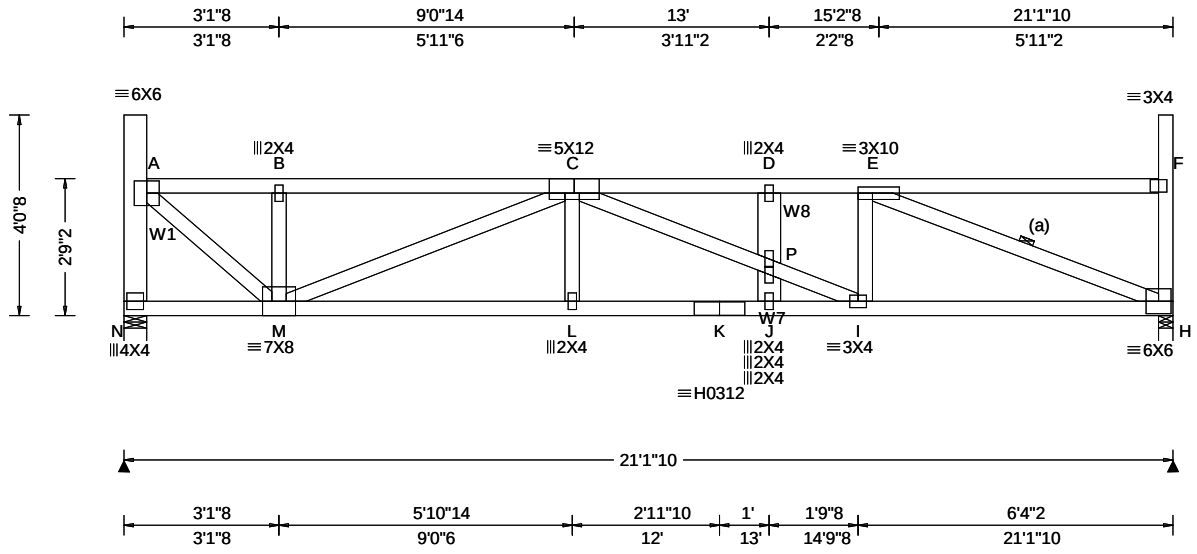
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34609 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T03	Cust: R 9316 JRef:1Xf493160001 T2 / DrwNo: 119.22.1045.16783 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.151	D	999	360
VERT(CL): 0.249	D	999	240
HORZ(LL): 0.045	H	-	-
HORZ(TL): 0.078	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.427
Max BC CSI: 0.921
Max Web CSI: 0.985

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1236	/-	/-	/534	/73	/119
H	1248	/-	/-	/539	/75	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.9 (Truss)
H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	134	- 1478	C - D	136	- 2408
B - C	134	- 1475	D - E	136	- 2408

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2766	- 235	J - I	2766	- 235
L - K	2766	- 235	I - H	2346	- 153
K - J	2766	- 235			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	77	- 1192	P - I	93	- 713
A - M	1771	- 115	I - E	525	- 3
M - C	126	- 1399	E - H	164	- 2492
C - P	92	- 694			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.28	11.74	2.83
20.84	0.00	20.39	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

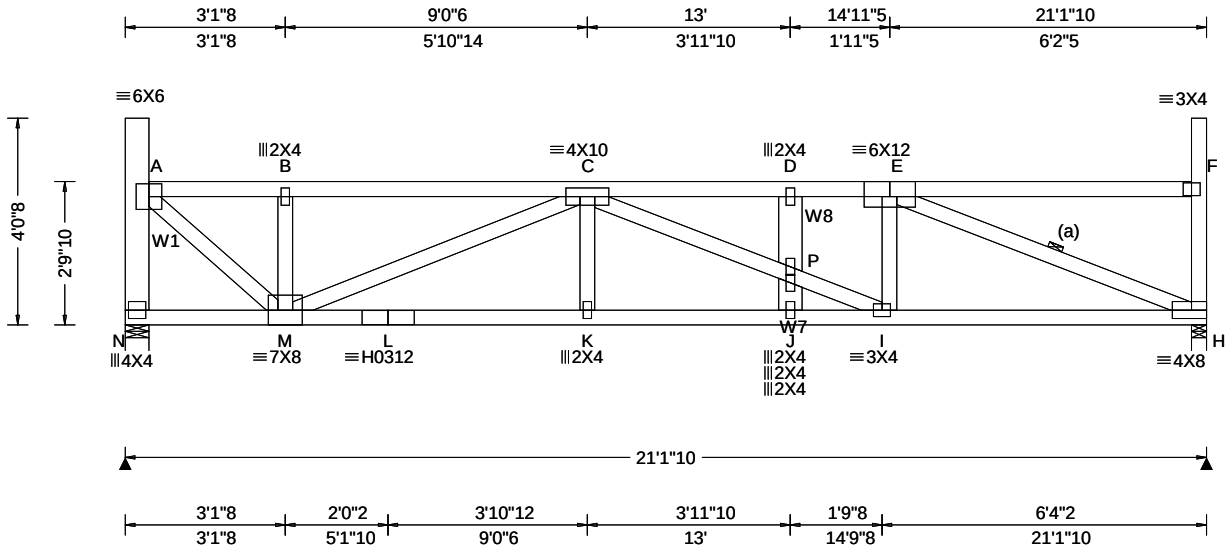
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34610 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T04	Cust: R 9316 JRef:1Xf493160001 T3 / DrwNo: 119.22.1045.13134 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	D	999	360
VERT(CL): 0.242	D	999	240
HORZ(LL): 0.045	H	-	-
HORZ(TL): 0.076	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.438
Max BC CSI: 0.913
Max Web CSI: 0.979

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1236	/-	/-	/534	/73	/118
H	1248	/-	/-	/538	/75	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.9 (Truss)
H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	132	- 1454	C - D	159	- 2365
B - C	131	- 1450	D - E	159	- 2365

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2724	- 232	J - I	2724	- 232
L - K	2724	- 232	I - H	2304	- 151
K - J	2724	- 232			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	77	- 1193	P - I	92	- 655
A - M	1753	- 114	I - E	530	- 3
M - C	124	- 1383	E - H	161	- 2453
C - P	91	- 627			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.24	10.35	2.50
20.84	0.00	20.39	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

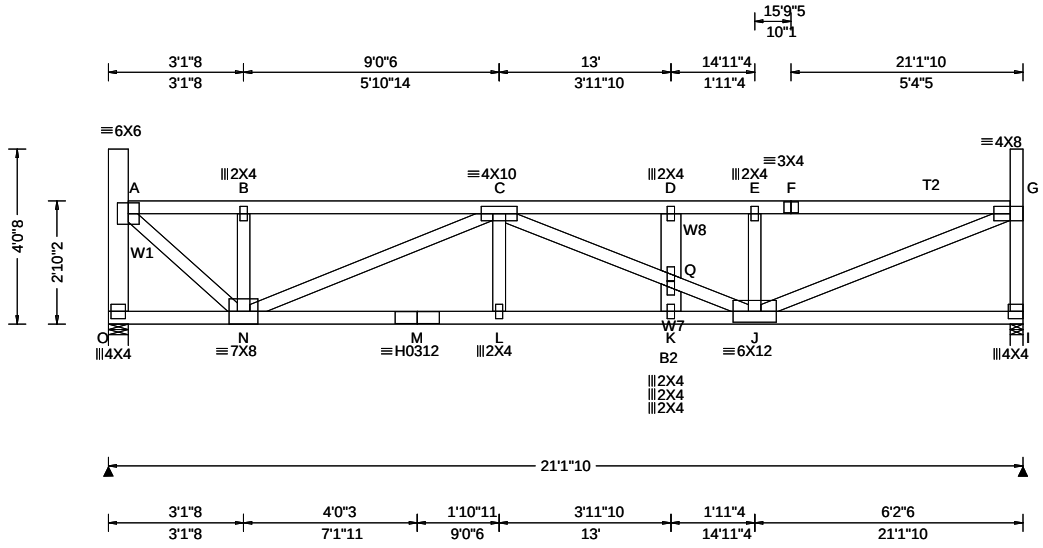
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34675 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T05	Cust: R 9316 JRef:1Xf493160001 T11 / DrwNo: 119.22.1045.11639 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.133 D	999	360
VERT(CL):	0.228 D	999	240
HORZ(LL):	0.032 A	-	-
HORZ(TL):	0.054 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.501
Max BC CSI: 0.806
Max Web CSI: 0.977

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	1236	/-	/-	/533	/73	/117
I	1248	/-	/-	/538	/75	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 1.9 (Truss)
I Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	130	- 1427	D - E	158	- 2312
B - C	129	- 1424	E - F	157	- 2308
C - D	158	- 2312	F - G	159	- 2317

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	2685	- 228	L - K	2685	- 228
M - L	2685	- 228	K - J	2685	- 228

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	78	- 1191	Q - J	88	- 416
A - N	1732	- 113	J - G	2405	- 159
N - C	120	- 1374	G - I	91	- 1115
C - Q	87	- 402			

Lumber

Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.20	8.97	2.16
20.84	0.00	20.39	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

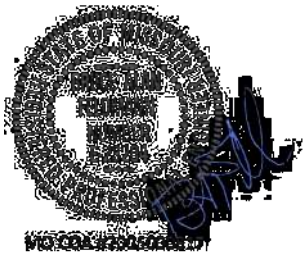
Wind

Wind loads based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

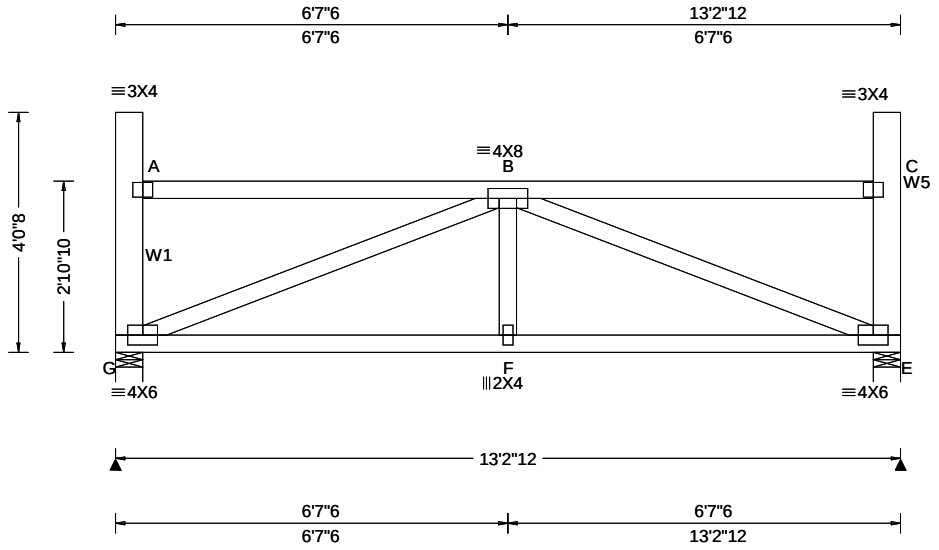
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34611 / SPEC FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T06	Cust: R 9316 JRef:1Xf493160001 T5 / DrwNo: 119.22.1045.18745 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.89 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.043	F	999	360
VERT(CL): 0.074	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.026	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.550
Max BC CSI: 0.642
Max Web CSI: 0.986

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	762	/-	/-	/341	/56	/115
E	762	/-	/-	/341	/56	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1210	- 165	F - E	1210	- 165

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	178	- 1233	B - E	176	- 1233

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.59	1.83
12.77	0.00	20.00	1.16	7.59	1.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

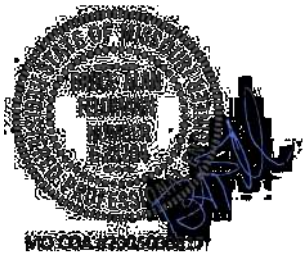
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

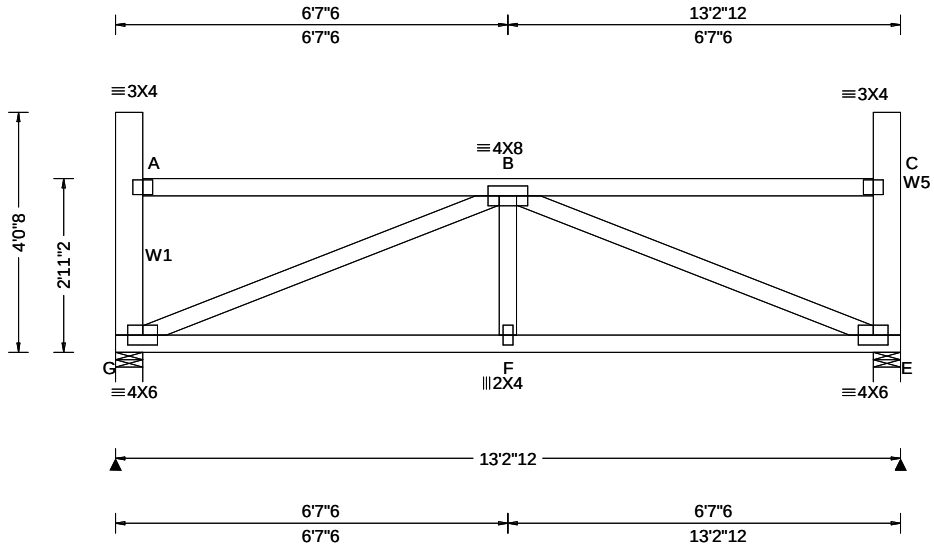
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34612 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T07	Cust: R 9316 JRef:1Xf493160001 T6 / DrwNo: 119.22.1045.12233 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.93 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.042	F	999	360
VERT(CL): 0.072	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.026	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.551
Max BC CSI: 0.639
Max Web CSI: 0.977

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	762	/-	/-	/341	/56	/114
E	762	/-	/-	/341	/56	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1191	- 163	F - E	1191	- 163

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	174	- 1217	B - E	172	- 1217

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.11	6.20	1.50
12.77	0.00	20.00	1.11	6.20	1.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

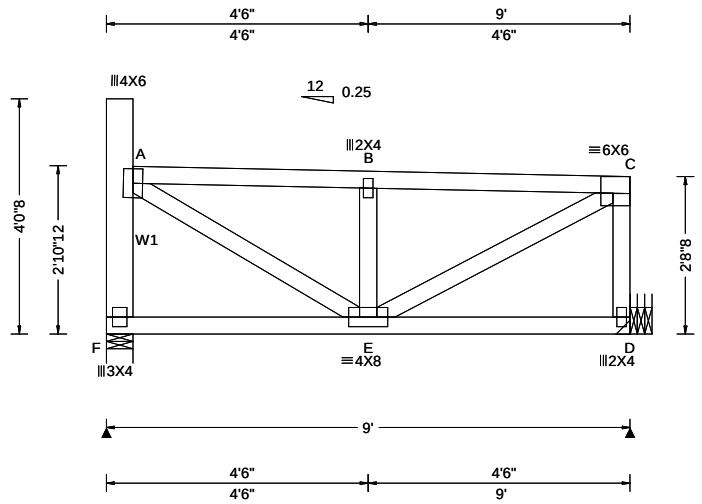
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34680 / MONO FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T10	Cust: R 9316 JRef:1Xf493160001 T9 / DrwNo: 119.22.1045.16189 / NDW 04/29/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.015	B	999	360
VERT(CL): 0.026	B	999	240
HORZ(LL): 0.004	A	-	-
HORZ(TL): 0.006	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.117
Max BC CSI: 0.676
Max Web CSI: 0.213

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	1266	/-	/-	/-	/176	/-
D	1489	/-	/-	/-	/148	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = - Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	95	- 793	B - C	95	- 794

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
F - A	50	- 453	E - C	869	- 106
A - E	832	- 95	C - D	54	- 471

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 4.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 35 plf at 0.46 to 35 plf at 9.00
BC: From 50 plf at 0.00 to 50 plf at 2.33
BC: From 25 plf at 2.33 to 25 plf at 9.00
BC: 713 lb Conc. Load at 2.33
BC: 487 lb Conc. Load at 4.33, 6.33, 8.33

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.84

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

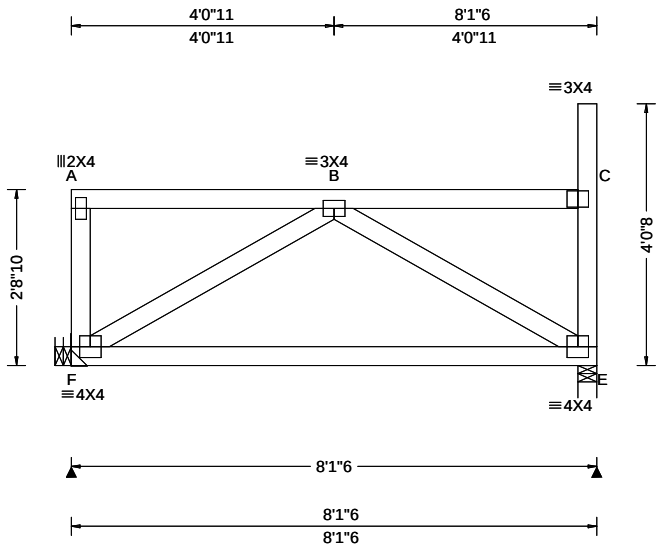
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34614 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T12	Cust: R 9316 JRef:1Xf493160001 T210 DrwNo: 119.22.1045.11484 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.004	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.216
Max BC CSI: 0.818
Max Web CSI: 0.203

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	487	/-	/-	/229	/43	/92
E	467	/-	/-	/214	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

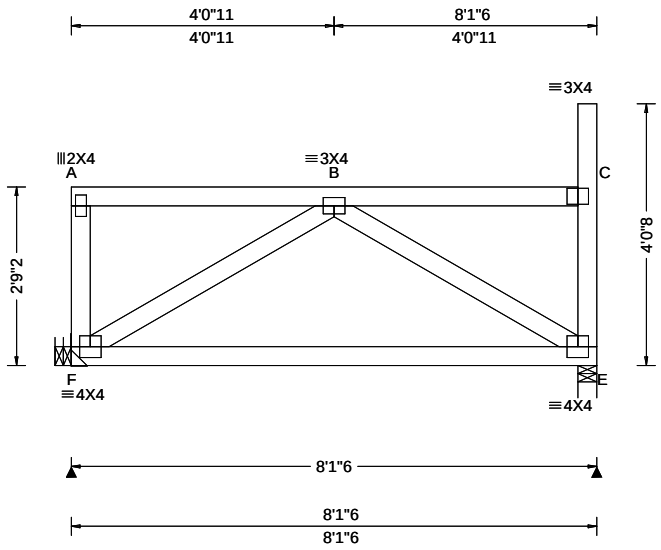
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34615 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T13	Cust: R 9316 JRef:1Xf493160001 T126 DrwNo: 119.22.1045.14670 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.004	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.216
Max BC CSI: 0.817
Max Web CSI: 0.203

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	487	/-	/-	/229	/44	/91
E	467	/-	/-	/214	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

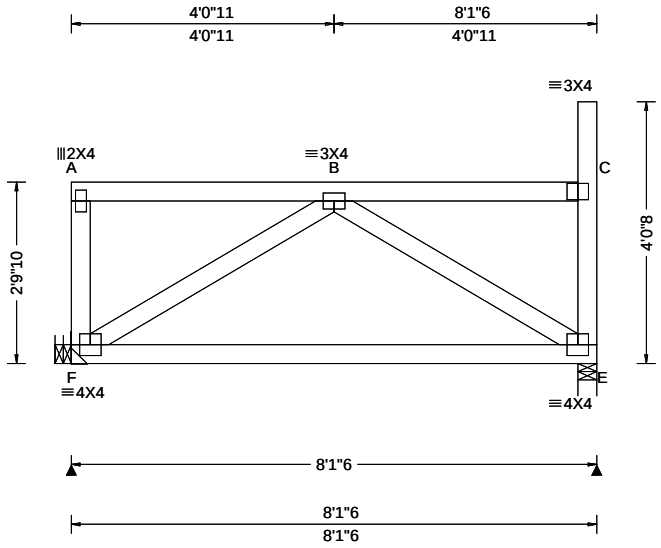
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34616 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T14	Cust: R 9316 JRef:1Xf493160001 T130 DrwNo: 119.22.1045.18947 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.004	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.217
Max BC CSI: 0.815
Max Web CSI: 0.203

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	487	/-	/-	/229	/44	/91
E	467	/-	/-	/214	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

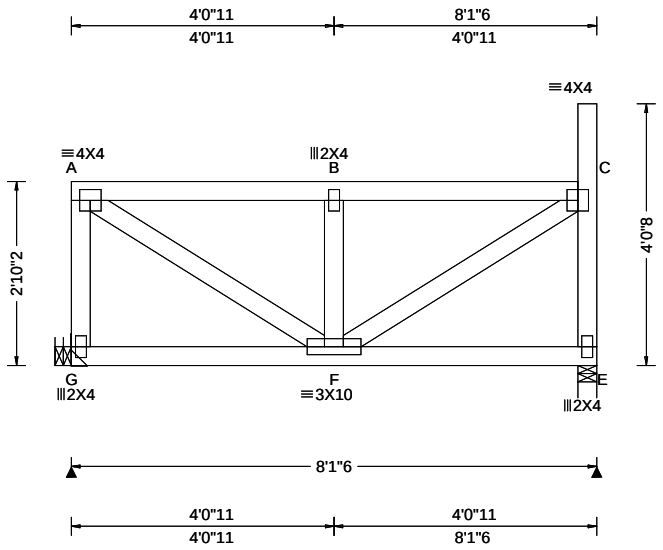
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

MO COA #2005000817

SEQN: 34677 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T15	Cust: R 9316 JRef:1Xf493160001 T124 DrwNo: 119.22.1045.11181 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.012	B	999	360
VERT(CL): 0.020	B	999	240
HORZ(LL): -0.002	C	-	-
HORZ(TL): 0.004	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.240
Max BC CSI: 0.306
Max Web CSI: 0.178

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	713	/-	/-	/-	/165	/-
E	569	/-	/-	/-	/108	/-

Wind reactions based on MWFRS
G Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	132	- 625	B - C	132	- 629

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	87	- 502	F - C	698	- 148
A - F	725	- 153	C - E	87	- 484

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 7.82
BC: From 25 plf at 0.00 to 25 plf at 8.11
BC: 133 lb Conc. Load at 0.27, 2.05, 4.05, 6.05

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

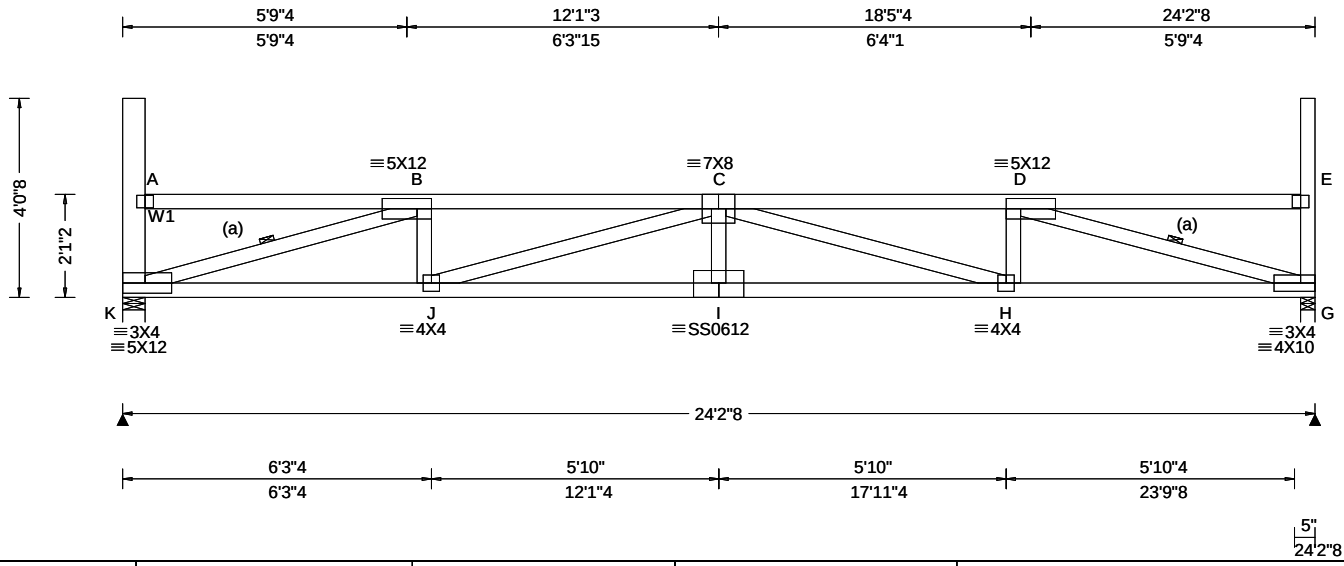
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34689 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T17	Cust: R 9316 JRef:1Xf493160001 T127 DrwNo: 119.22.1137.59733 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.410	I	708	360
VERT(CL): 0.687	I	423	240
HORZ(LL): 0.083	G	-	-
HORZ(TL): 0.139	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.718
Max BC CSI: 0.673
Max Web CSI: 0.843

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1467	/-	/-	/610	/78	/129
G	1479	/-	/-	/616	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 1.9 (Truss)
G Brg Wid = 3.5 Min Req = 1.9 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	233	- 4010	C - D	226	- 4022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3902	- 365	I - H	5170	- 305
J - I	5170	- 305	H - G	3912	- 206

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	237	- 3975	C - H	143	- 1202
B - J	677	- 2	H - D	690	- 1
J - C	144	- 1214	D - G	235	- 4028

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.95	33.87	4.20
23.92	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.41" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

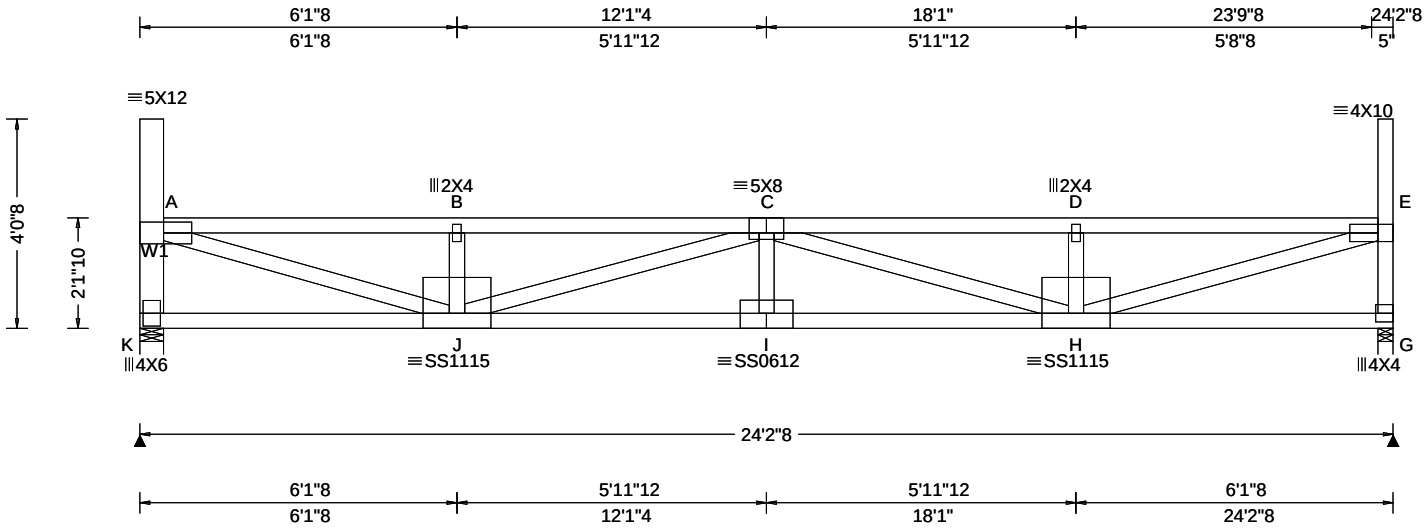
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34618 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T18	Cust: R 9316 JRef:1Xf493160001 T125 DrwNo: 119.22.1045.12917 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.390 I	745	360
VERT(CL):	0.668 I	434	240
HORZ(LL):	0.059 A	-	-
HORZ(TL):	0.101 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.873
Max BC CSI: 0.653
Max Web CSI: 0.937

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1421	/-	/-	/610	/78	/127
G	1432	/-	/-	/616	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	233	- 3773	C - D	224	- 3779
B - C	232	- 3768	D - E	225	- 3784

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	4893	- 299	I - H	4893	- 299

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	91	- 1275	C - H	135	- 1166
A - J	3744	- 240	H - E	3820	- 239
J - C	139	- 1176	E - G	93	- 1295

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.91	32.49	4.38
23.92	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

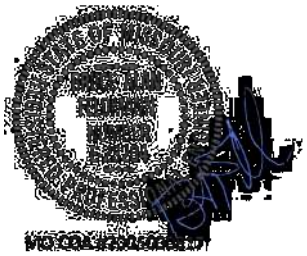
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.39" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

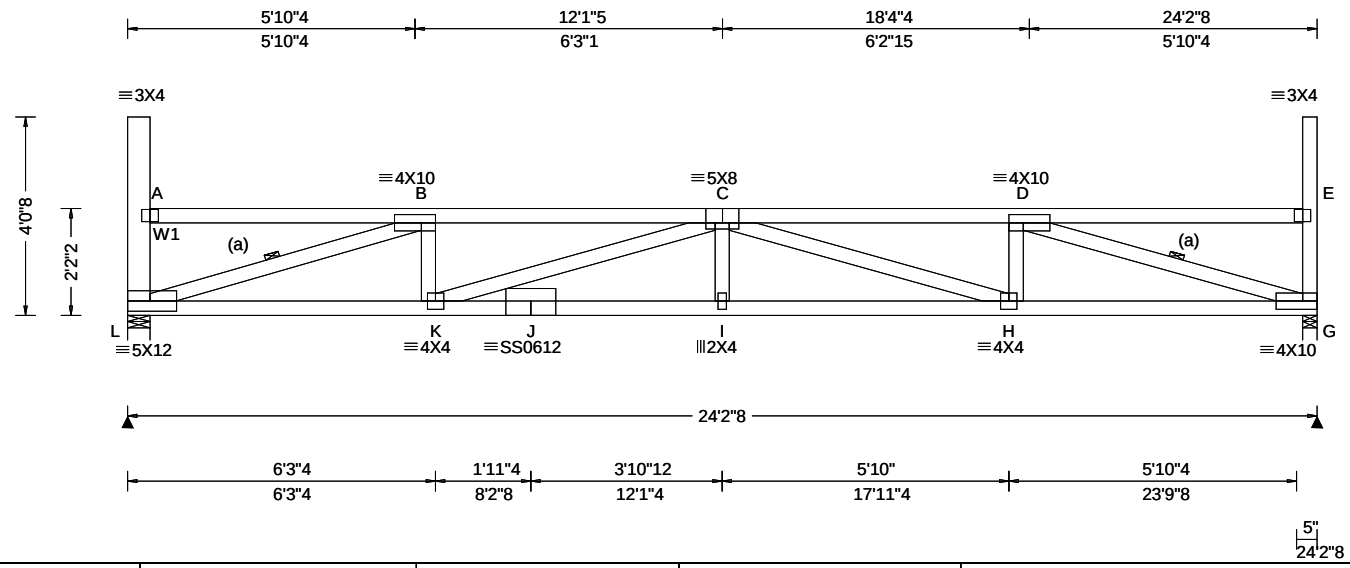
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34619 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T19	Cust: R 9316 JRef:1Xf493160001 T115 DrwNo: 119.22.1045.13493 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.356 I	815	360
VERT(CL):	0.610 I	476	240
HORZ(LL):	0.075 G	-	-
HORZ(TL):	0.129 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.629
Max BC CSI: 0.622
Max Web CSI: 0.787

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/610	/78	/126
G	1432	/-	/-	/616	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	225	- 3716	C - D	216	- 3726

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3614	- 353	I - H	4787	- 296
K - J	4787	- 296	H - G	3622	- 197
J - I	4787	- 296			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	228	- 3698	C - H	135	- 1116
B - K	667	- 2	H - D	678	- 1
K - C	136	- 1126	D - G	226	- 3746

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

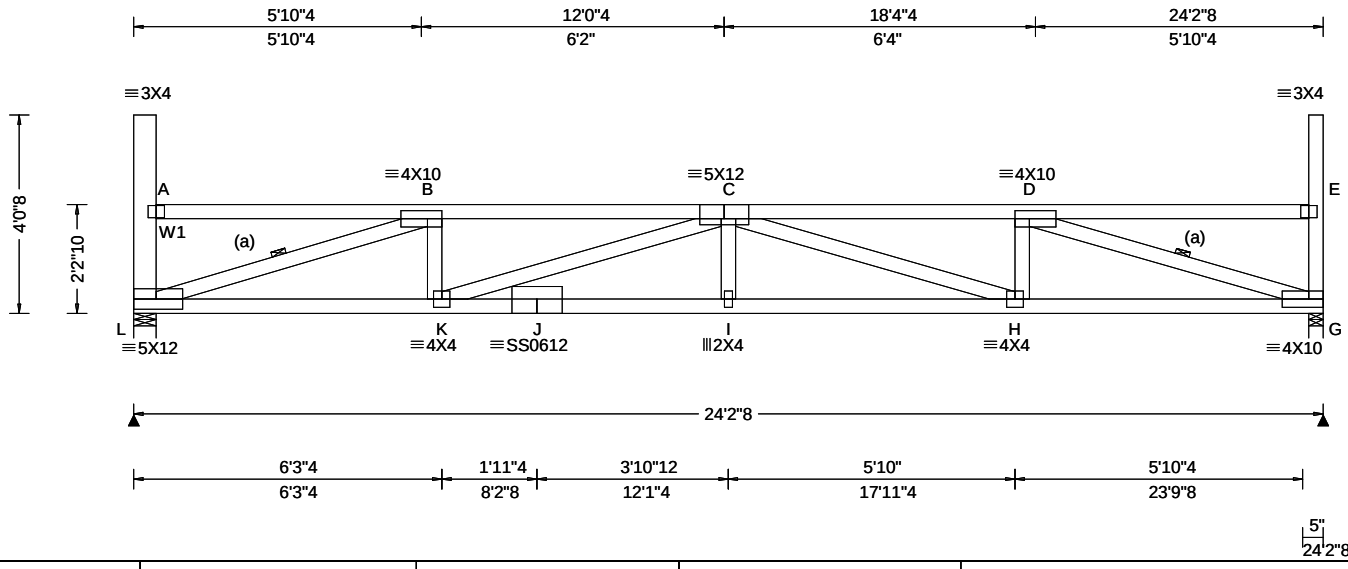
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34725 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T20	Cust: R 9316 JRef:1Xf493160001 T116 DrwNo: 119.22.1045.12661 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.342	I	850	360
VERT(CL): 0.586	I	496	240
HORZ(LL): 0.074	G	-	-
HORZ(TL): 0.126	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.609
Max BC CSI: 0.610
Max Web CSI: 0.774

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/610	/78	/124
G	1432	/-	/-	/616	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	221	-3638	C - D	212	-3648

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3539	-347	I - H	4686	-292
K - J	4686	-292	H - G	3546	-194
J - I	4686	-292			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	224	-3629	C - H	132	-1093
B - K	667	-1	H - D	679	-1
K - C	133	-1104	D - G	222	-3676

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.82	29.72	4.79
23.92	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

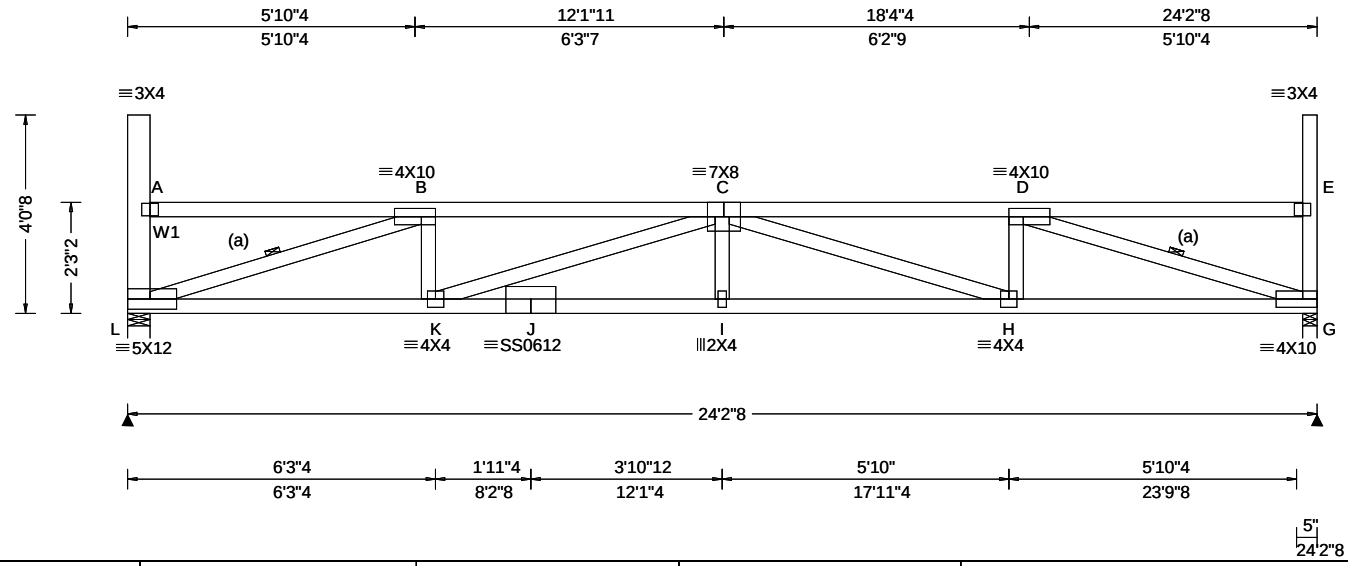
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34621 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T21	Cust: R 9316 JRef:1Xf493160001 T117 DrwNo: 119.22.1045.13870 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.328 I	886	360
VERT(CL):	0.562 I	517	240
HORZ(LL):	0.072 G	-	-
HORZ(TL):	0.123 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.590
Max BC CSI: 0.600
Max Web CSI: 0.761

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1419	/-	/-	/609	/78	/123
G	1431	/-	/-	/615	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	199	- 3560	C - D	187	- 3569

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3462	- 340	I - H	4581	- 286
K - J	4581	- 286	H - G	3470	- 182
J - I	4581	- 286			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	219	- 3559	C - H	128	- 1068
B - K	666	- 1	H - D	677	0
K - C	129	- 1078	D - G	217	- 3604

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

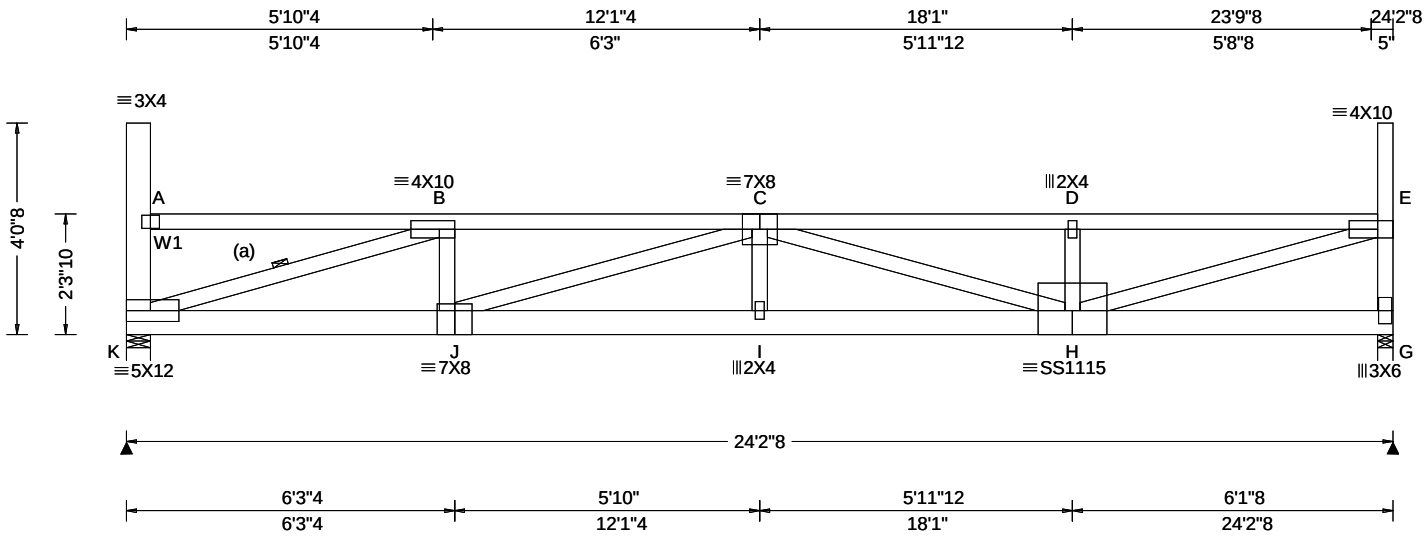
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34698 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T22	Cust: R 9316 JRef:1Xf493160001 T118 DrwNo: 119.22.1138.02307 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.328	I	884	360
VERT(CL): 0.550	I	527	240
HORZ(LL): 0.054	A	-	-
HORZ(TL): 0.091	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.836
Max BC CSI: 0.604
Max Web CSI: 0.914

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1466	/-	/-	/609	/77	/119
G	1478	/-	/-	/615	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.3 (Truss)
G Brg Wid = 3.5 Min Req = 2.3 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	200	- 3700	D - E	191	- 3670
C - D	190	- 3665			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3600	- 313	I - H	4807	- 273
J - I	4807	- 273			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	218	- 3706	D - H	75	- 392
B - J	663	0	H - E	3723	- 219
J - C	119	- 1167	E - G	92	- 1321
C - H	114	- 1200			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.74	26.95	5.28
23.92	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

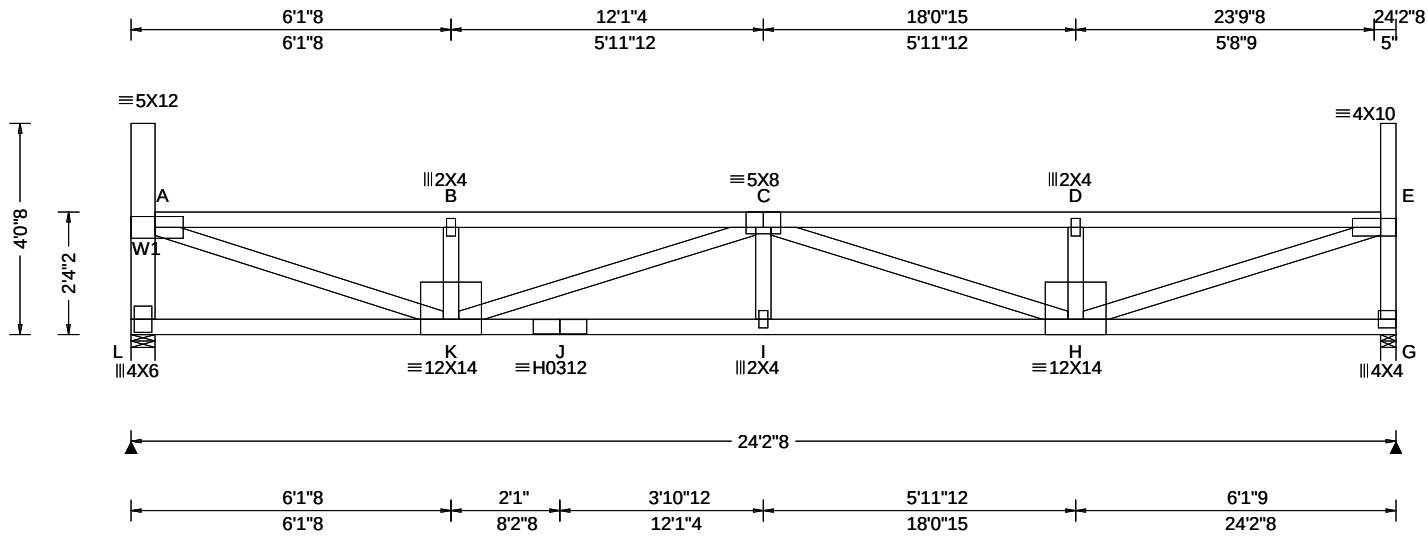
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34623 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T23	Cust: R 9316 JRef:1Xf493160001 T119 DrwNo: 119.22.1045.18996 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.318	I	912	360
VERT(CL): 0.545	I	532	240
HORZ(LL): 0.054	A	-	-
HORZ(TL): 0.092	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.807
Max BC CSI: 0.585
Max Web CSI: 0.853

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/609	/78	/120
G	1432	/-	/-	/615	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	198	- 3403	C - D	184	- 3407
B - C	198	- 3398	D - E	185	- 3412

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4405	- 268	I - H	4405	- 268
J - I	4405	- 268			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	92	- 1278	D - H	76	- 377
A - K	3408	- 213	H - E	3476	- 212
K - C	114	- 1064	E - G	94	- 1297
C - H	111	- 1055			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.70	25.57	5.57
23.92	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

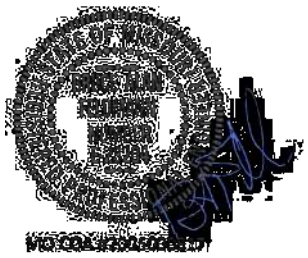
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

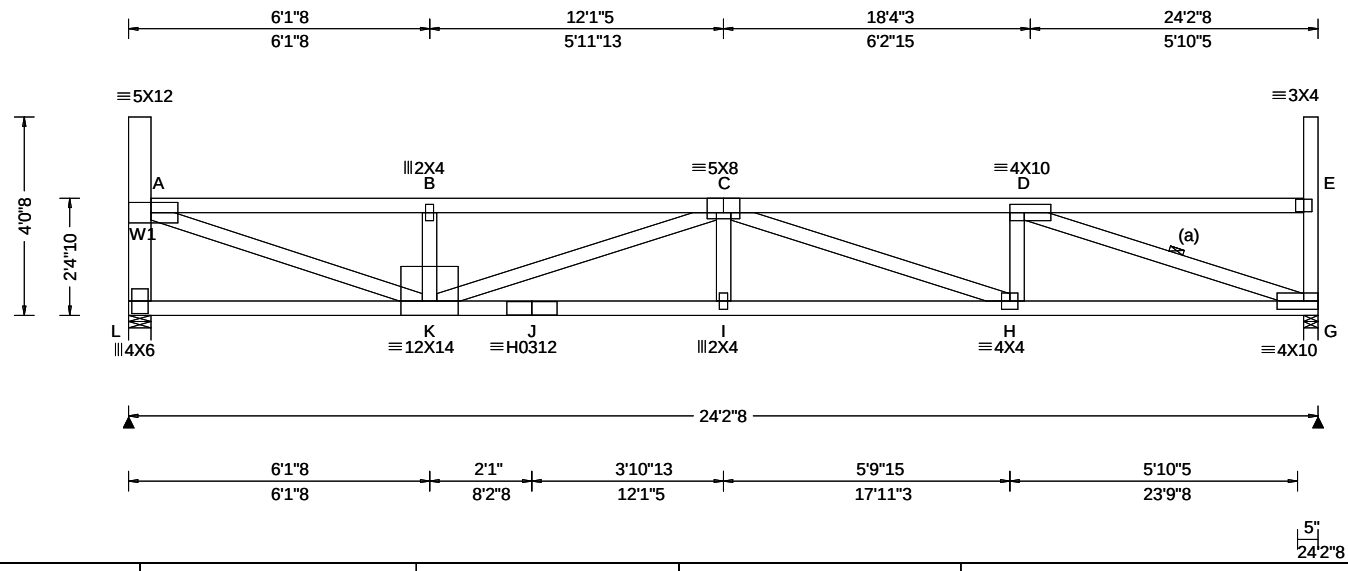
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34624 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T24	Cust: R 9316 JRef:1Xf493160001 T120 DrwNo: 119.22.1045.17657 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.299	I	972	360
VERT(CL): 0.512	I	567	240
HORZ(LL): 0.054	G	-	-
HORZ(TL): 0.092	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.764
Max BC CSI: 0.579
Max Web CSI: 0.822

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/609	/78	/119
G	1432	/-	/-	/615	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	195	- 3337	C - D	177	- 3365
B - C	194	- 3332			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4318	- 265	I - H	4318	- 265
J - I	4318	- 265	H - G	3272	- 176

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1279	C - H	111	- 1012
A - K	3348	- 209	H - D	677	0
K - C	112	- 1044	D - G	207	- 3421

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

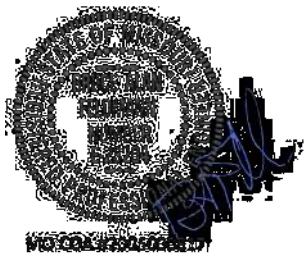
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

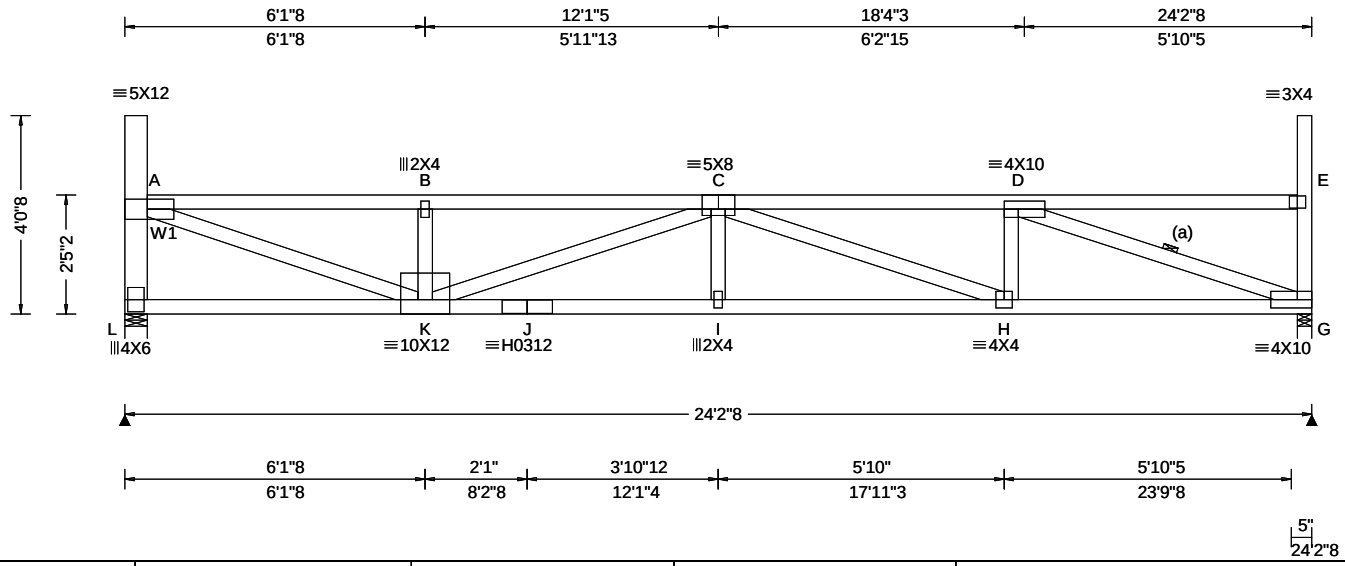
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34625 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T25	Cust: R 9316 JRef:1Xf493160001 T121 DrwNo: 119.22.1045.11774 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.288 I	999	360
VERT(CL):	0.493 I	589	240
HORZ(LL):	0.053 G	-	-
HORZ(TL):	0.090 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.729
Max BC CSI: 0.570
Max Web CSI: 0.807

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/609	/78	/118
G	1432	/-	/-	/615	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	191	- 3273	C - D	174	- 3301
B - C	191	- 3268			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4234	- 262	I - H	4234	- 262
J - I	4234	- 262	H - G	3209	- 174

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1279	C - H	109	- 993
A - K	3290	- 205	H - D	676	0
B - K	76	- 376	D - G	204	- 3363
K - C	109	- 1025			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.61	22.80	5.50
23.92	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

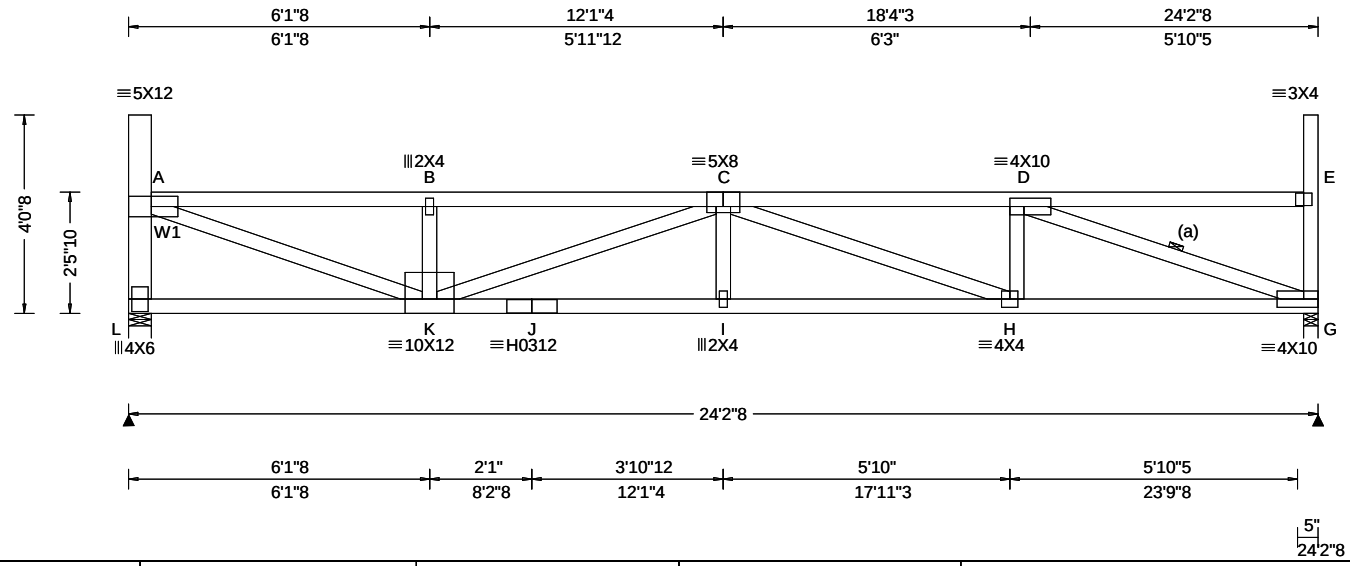
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34626 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T26	Cust: R 9316 JRef:1Xf493160001 T106 DrwNo: 119.22.1045.17413 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.278 I	999	360
VERT(CL):	0.476 I	610	240
HORZ(LL):	0.052 G	-	-
HORZ(TL):	0.089 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.696
Max BC CSI: 0.562
Max Web CSI: 0.794

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/609	/78	/116
G	1432	/-	/-	/615	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	189	- 3213	C - D	171	- 3240
B - C	188	- 3208			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4155	- 259	I - H	4155	- 259
J - I	4155	- 259	H - G	3150	- 172

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1280	C - H	107	- 977
A - K	3236	- 202	H - D	677	0
B - K	77	- 378	D - G	201	- 3308
K - C	107	- 1008			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

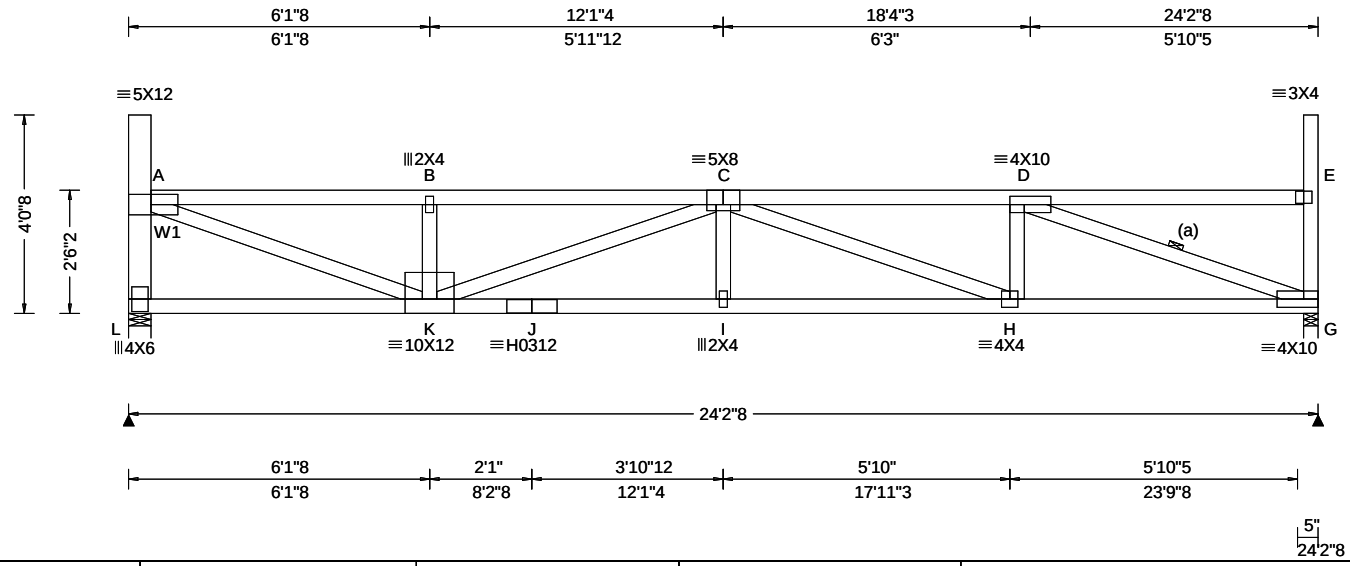
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34627 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T27	Cust: R 9316 JRef:1Xf493160001 T105 DrwNo: 119.22.1045.15870 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.268 I	999	360
VERT(CL):	0.459 I	632	240
HORZ(LL):	0.051 G	-	-
HORZ(TL):	0.087 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.665
Max BC CSI: 0.557
Max Web CSI: 0.781

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/608	/79	/115
G	1432	/-	/-	/615	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	186	- 3154	C - D	168	- 3180
B - C	185	- 3149			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4077	- 255	I - H	4077	- 255
J - I	4077	- 255	H - G	3092	- 170

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1280	C - H	104	- 960
A - K	3183	- 198	H - D	677	0
B - K	77	- 379	D - G	198	- 3255
K - C	105	- 990			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

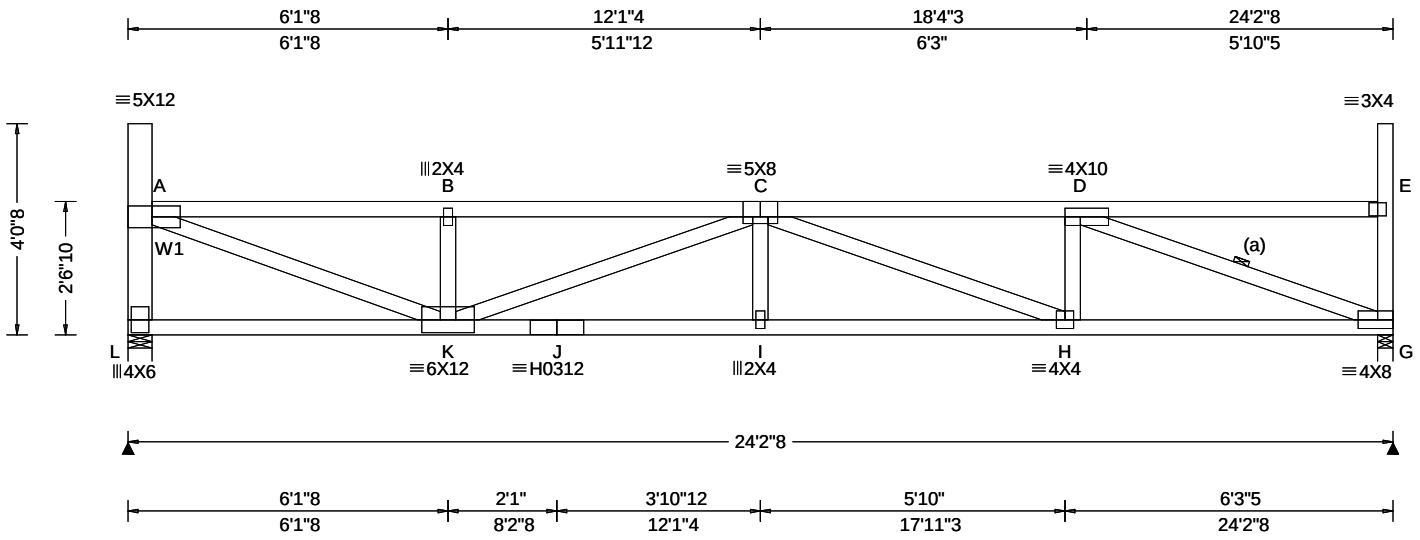
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34628 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T28	Cust: R 9316 JRef:1Xf493160001 T107 DrwNo: 119.22.1045.11657 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.259	I	999	360
VERT(CL): 0.443	I	655	240
HORZ(LL): 0.050	G	-	-
HORZ(TL): 0.086	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.637
Max BC CSI: 0.551
Max Web CSI: 0.768

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/608	/79	/113
G	1432	/-	/-	/615	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	183	- 3097	C - D	165	- 3123
B - C	182	- 3092			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4003	- 252	I - H	4003	- 252
J - I	4003	- 252	H - G	3036	- 168

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1280	C - H	102	- 944
A - K	3131	- 195	H - D	677	0
B - K	77	- 381	D - G	195	- 3204
K - C	102	- 974			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

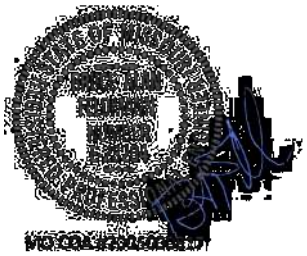
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

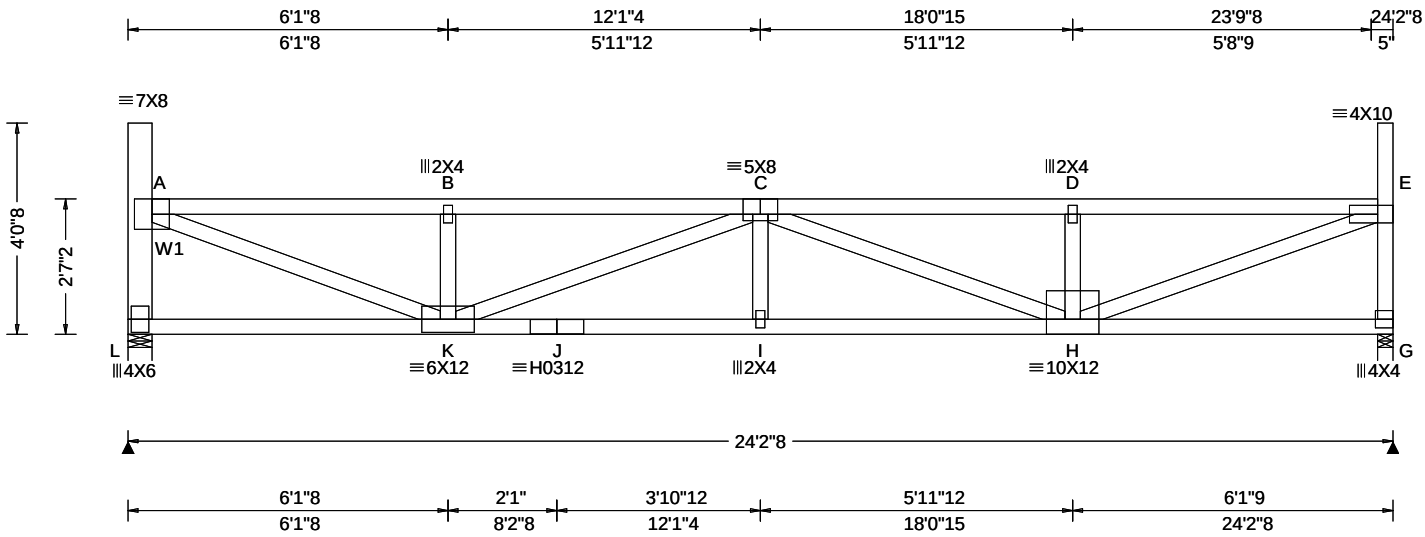
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34629 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T29	Cust: R 9316 JRef:1Xf493160001 T111 DrwNo: 119.22.1045.14671 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.256	I	999	360
VERT(CL): 0.439	I	661	240
HORZ(LL): 0.049	A	-	-
HORZ(TL): 0.083	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.645
Max BC CSI: 0.540
Max Web CSI: 0.771

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/608	/79	/112
G	1432	/-	/-	/614	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	180	- 3042	C - D	165	- 3045
B - C	180	- 3037	D - E	166	- 3050

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3931	- 248	I - H	3931	- 248
J - I	3931	- 248			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	- 1280	C - H	97	- 949
A - K	3082	- 192	D - H	77	- 388
B - K	77	- 384	H - E	3144	- 191
K - C	99	- 958	E - G	95	- 1299

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.45	17.27	4.16
23.92	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

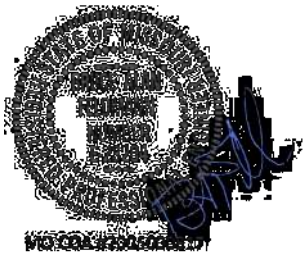
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

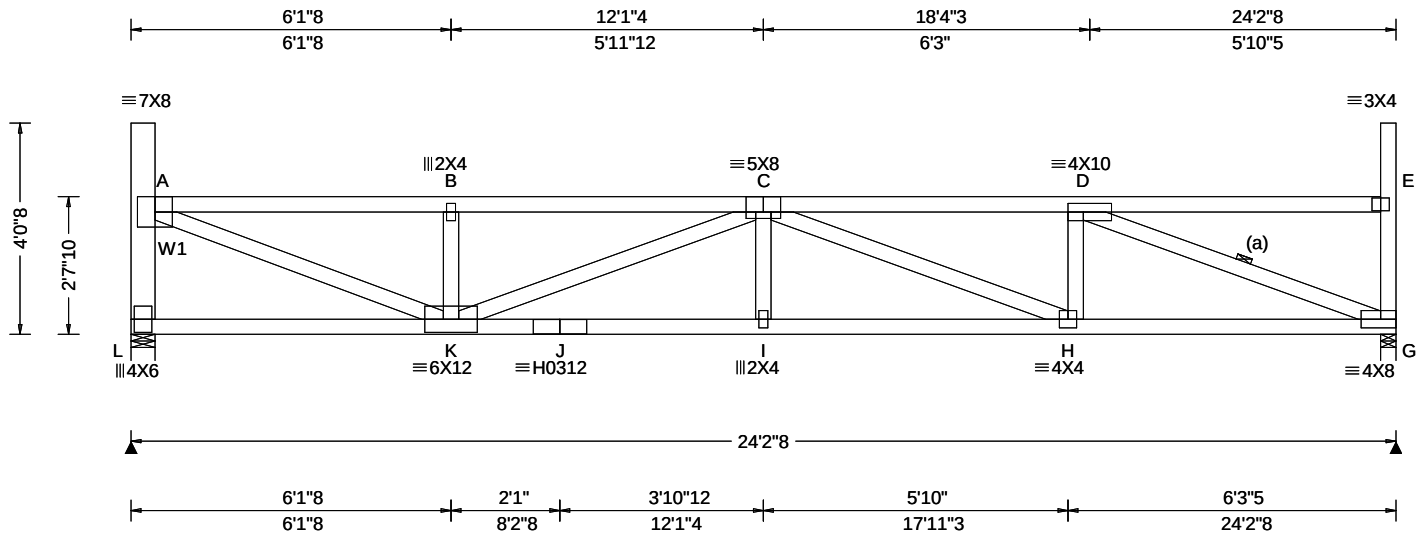
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34630 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T30	Cust: R 9316 JRef:1Xf493160001 T122 DrwNo: 119.22.1045.11241 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.242 I	999	360
VERT(CL):	0.414 I	700	240
HORZ(LL):	0.048 G	-	-
HORZ(TL):	0.083 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.605
Max BC CSI: 0.541
Max Web CSI: 0.745

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/608	/79	/111
G	1432	/-	/-	/614	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	178	- 2989	C - D	159	- 3014
B - C	177	- 2985			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3862	- 246	I - H	3862	- 246
J - I	3862	- 246	H - G	2930	- 164

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	- 1281	C - H	98	- 915
A - K	3035	- 188	H - D	677	0
B - K	77	- 384	D - G	189	- 3107
K - C	98	- 943			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

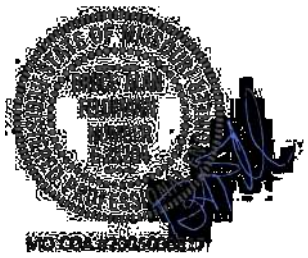
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.17". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

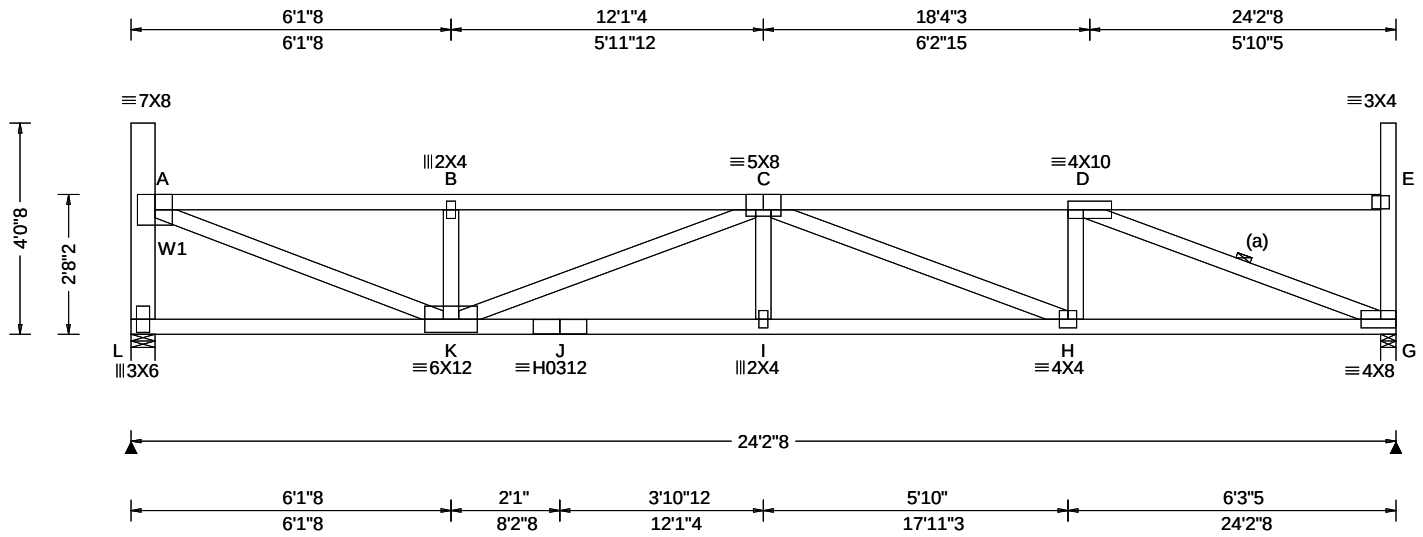
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34631 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T31	Cust: R 9316 JRef:1Xf493160001 T129 DrwNo: 119.22.1045.18726 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.234	I	999	360
VERT(CL): 0.401	I	724	240
HORZ(LL): 0.047	G	-	-
HORZ(TL): 0.081	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.595
Max BC CSI: 0.536
Max Web CSI: 0.733

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/608	/79	/109
G	1432	/-	/-	/614	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	175	- 2938	C - D	156	- 2962
B - C	174	- 2933			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3795	- 242	I - H	3795	- 242
J - I	3795	- 242	H - G	2880	- 162

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	- 1281	C - H	96	- 900
A - K	2989	- 185	H - D	677	0
B - K	77	- 385	D - G	186	- 3061
K - C	96	- 928			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.36	14.50	3.50
23.92	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

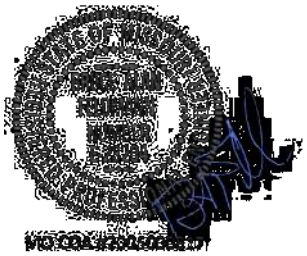
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.17". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

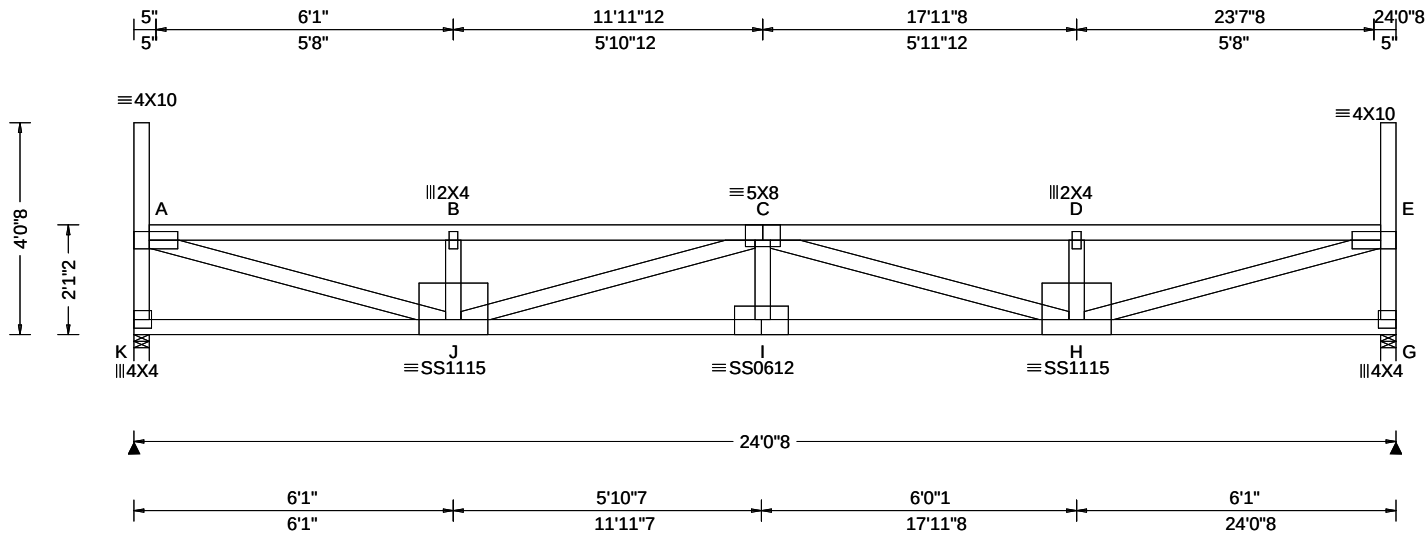
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34632 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T33	Cust: R 9316 JRef:1Xf493160001 T166 DrwNo: 119.22.1045.15318 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.398	I	725	360
VERT(CL): 0.682	I	423	240
HORZ(LL): 0.059	A	-	-
HORZ(TL): 0.100	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.868
Max BC CSI: 0.652
Max Web CSI: 0.944

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1421	/-	/-	/612	/80	/138
G	1421	/-	/-	/612	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	239	- 3812	C - D	238	- 3811
B - C	238	- 3807	D - E	239	- 3816

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	4930	- 302	I - H	4930	- 302

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	94	- 1285	C - H	138	- 1169
A - J	3844	- 242	H - E	3849	- 244
J - C	142	- 1174	E - G	94	- 1285

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.95	33.87	4.20
23.75	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

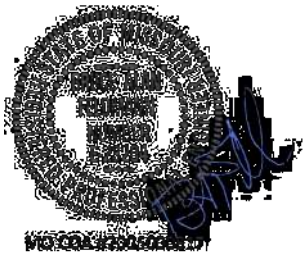
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.40" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

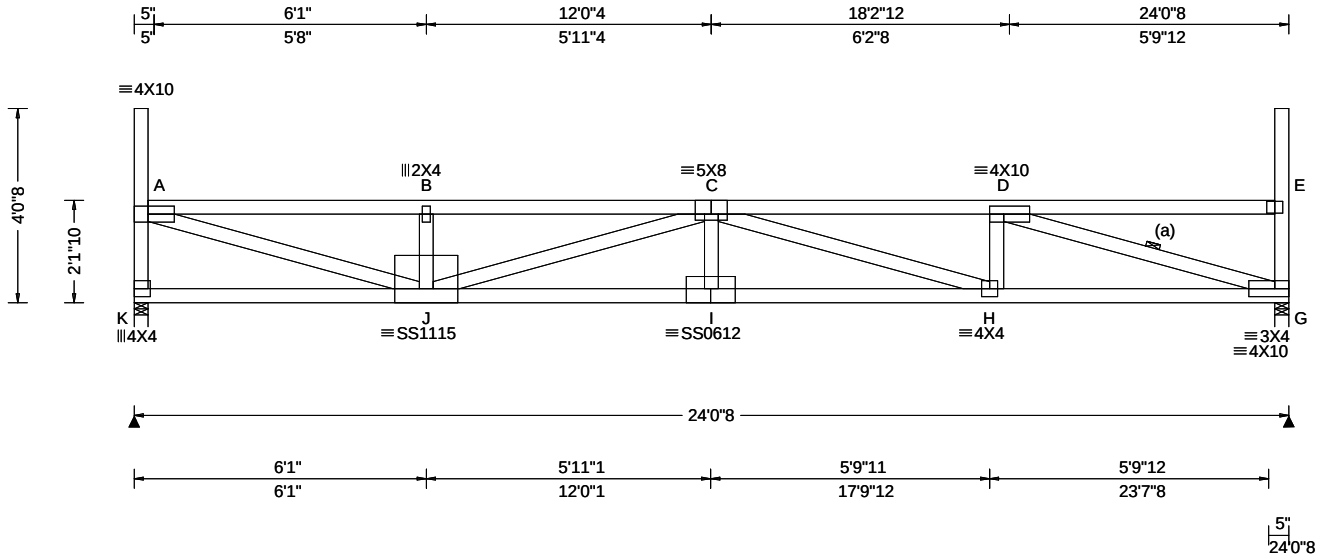
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34633 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T34	Cust: R 9316 JRef:1Xf493160001 T154 DrwNo: 119.22.1045.13074 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.371 I	776	360
VERT(CL):	0.637 I	453	240
HORZ(LL):	0.059 G	-	-
HORZ(TL):	0.102 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.854
Max BC CSI: 0.639
Max Web CSI: 0.925

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1422	/-	/-	/612	/80	/137
G	1422	/-	/-	/612	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	234	-3732	C - D	231	-3757
B - C	233	-3727			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	4822	-298	H - G	3652	-199
I - H	4822	-298			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	94	-1286	C - H	138	-1118
A - J	3770	-236	H - D	672	-1
J - C	140	-1147	D - G	231	-3771

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.37" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

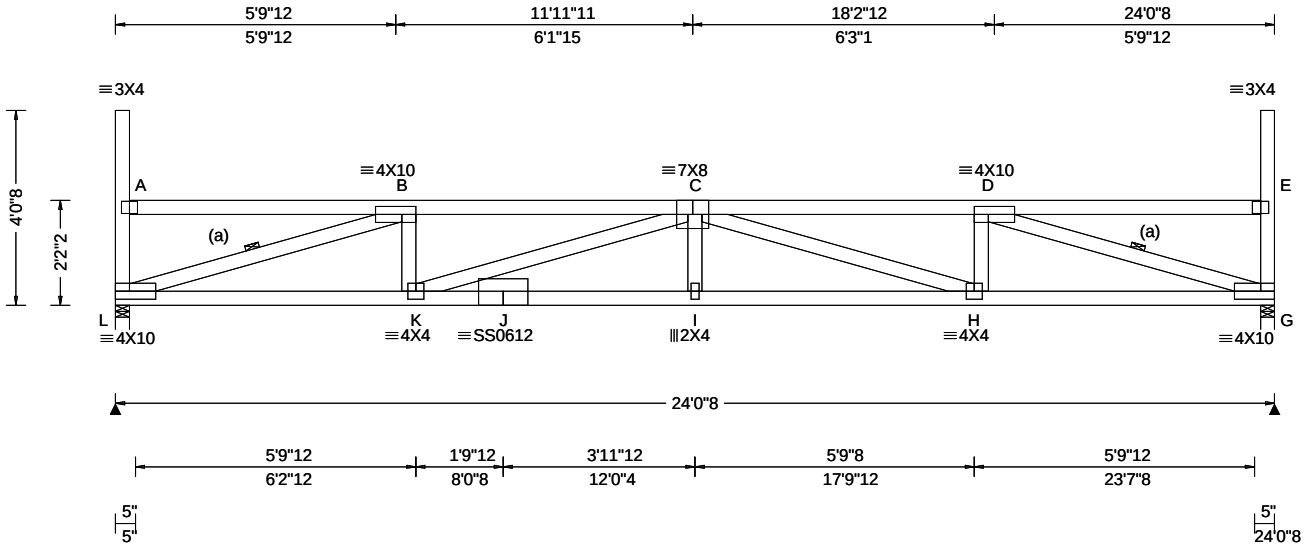
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34634 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T35	Cust: R 9316 JRef:1Xf493160001 T156 DrwNo: 119.22.1045.13333 / NDW 04/29/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.346 I 832 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.594 I 486 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.074 G - -
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.126 G - -
NCBCLL: 0.00	Mean Height: 21.18 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.608
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.612
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.770
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/612	/80	/135
G	1420	/-	/-	/612	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	225	-3672	C - D	225	-3671

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3569	-350	I - H	4710	-291
K - J	4710	-291	H - G	3568	-194
J - I	4710	-291			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	225	-3694	C - H	134	-1093
B - K	673	-1	H - D	672	-1
K - C	135	-1092	D - G	225	-3693

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.35" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

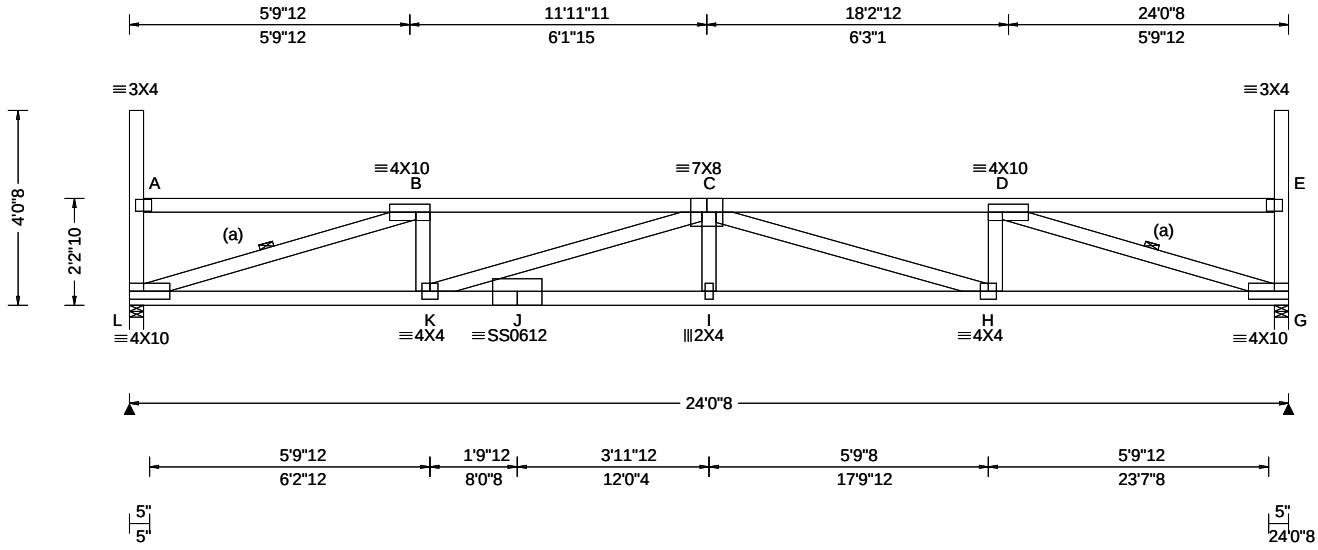
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34635 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T36	Cust: R 9316 JRef:1Xf493160001 T152 DrwNo: 119.22.1045.17312 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.332 I	868	360
VERT(CL):	0.570 I	506	240
HORZ(LL):	0.072 G	-	-
HORZ(TL):	0.123 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.588
Max BC CSI: 0.603
Max Web CSI: 0.757

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/612	/80	/134
G	1420	/-	/-	/612	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	221	-3595	C - D	221	-3594

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3494	-344	I - H	4610	-287
K - J	4610	-287	H - G	3493	-192
J - I	4610	-287			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	221	-3624	C - H	131	-1071
B - K	673	-1	H - D	672	-1
K - C	132	-1070	D - G	221	-3623

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.82	29.72	4.79
23.75	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

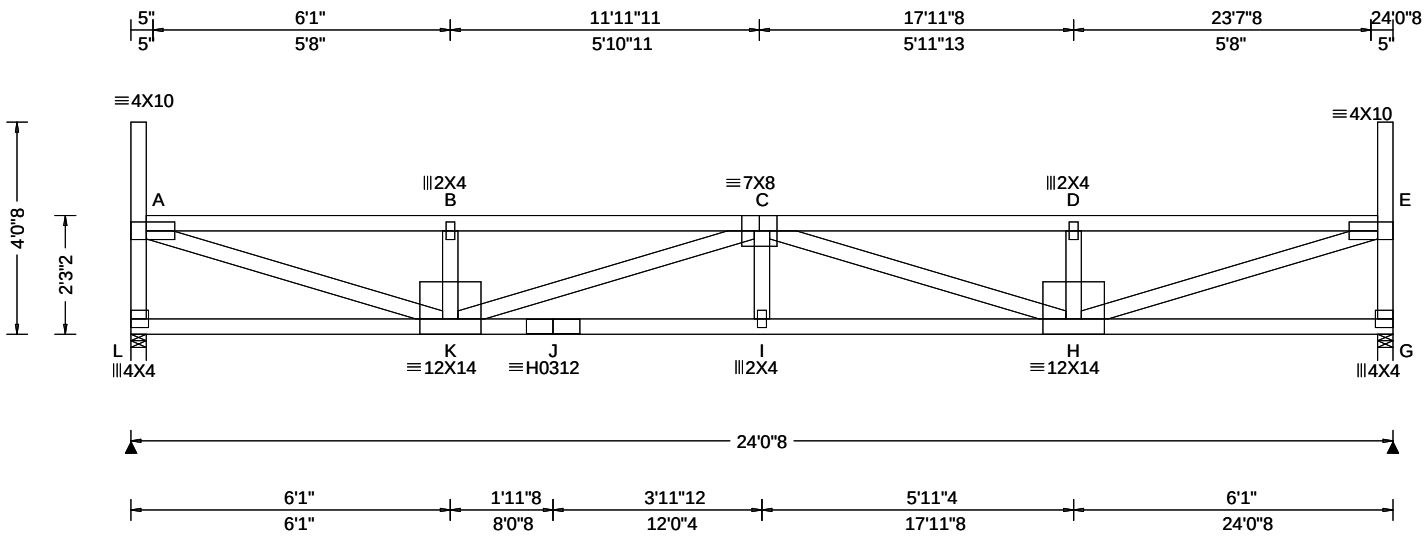
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34636 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T37	Cust: R 9316 JRef:1Xf493160001 T160 DrwNo: 119.22.1045.19152 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.336 I	858	360
VERT(CL):	0.576 I	500	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.093 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.812
Max BC CSI: 0.594
Max Web CSI: 0.872

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/612	/80	/133
G	1420	/-	/-	/612	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	199	-3499	C - D	198	-3493
B - C	198	-3494	D - E	198	-3498

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4514	-281	I - H	4514	-281
J - I	4514	-281			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	-1286	C - H	123	-1076
A - K	3554	-220	H - E	3553	-221
K - C	127	-1075	E - G	94	-1286

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.78	28.34	5.03
23.75	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

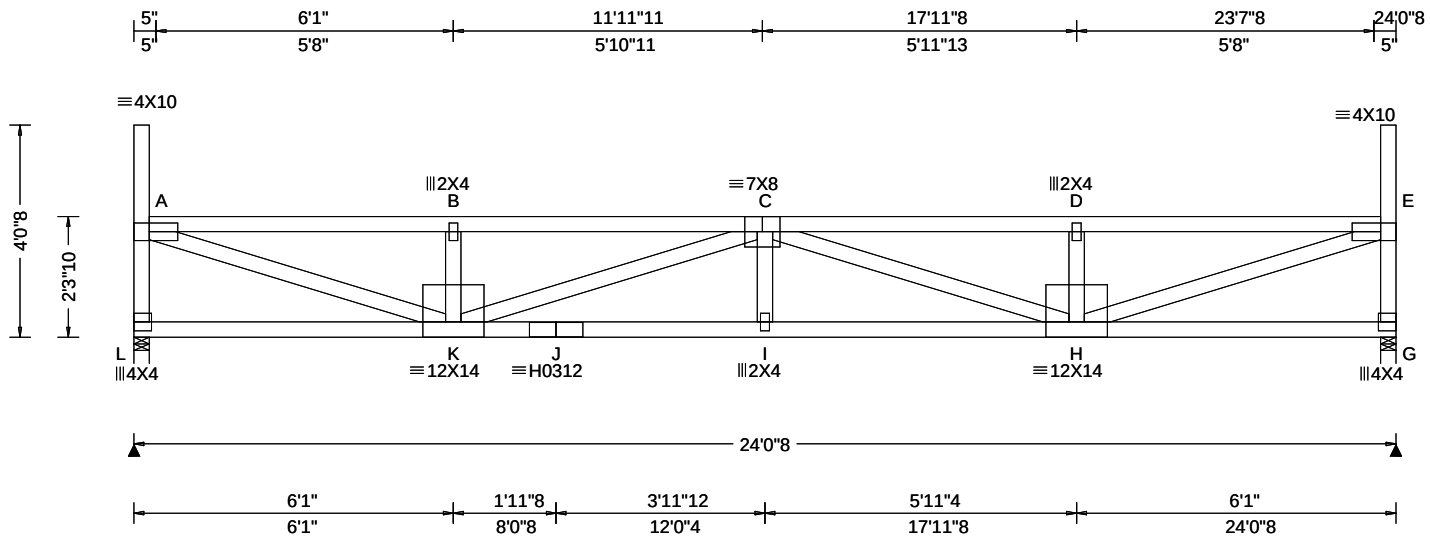
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34637 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T38	Cust: R 9316 JRef:1Xf493160001 T162 DrwNo: 119.22.1045.16605 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.323	I	893	360
VERT(CL): 0.554	I	521	240
HORZ(LL): 0.053	A	-	-
HORZ(TL): 0.091	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.799
Max BC CSI: 0.585
Max Web CSI: 0.856

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/612	/80	/132
G	1420	/-	/-	/612	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	195	-3429	C - D	194	-3423
B - C	194	-3423	D - E	195	-3428

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4422	-275	I - H	4422	-275
J - I	4422	-275			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	-1287	C - H	112	-1055
A - K	3488	-216	H - E	3487	-217
K - C	115	-1054	E - G	94	-1286

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.74	26.95	5.28
23.75	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

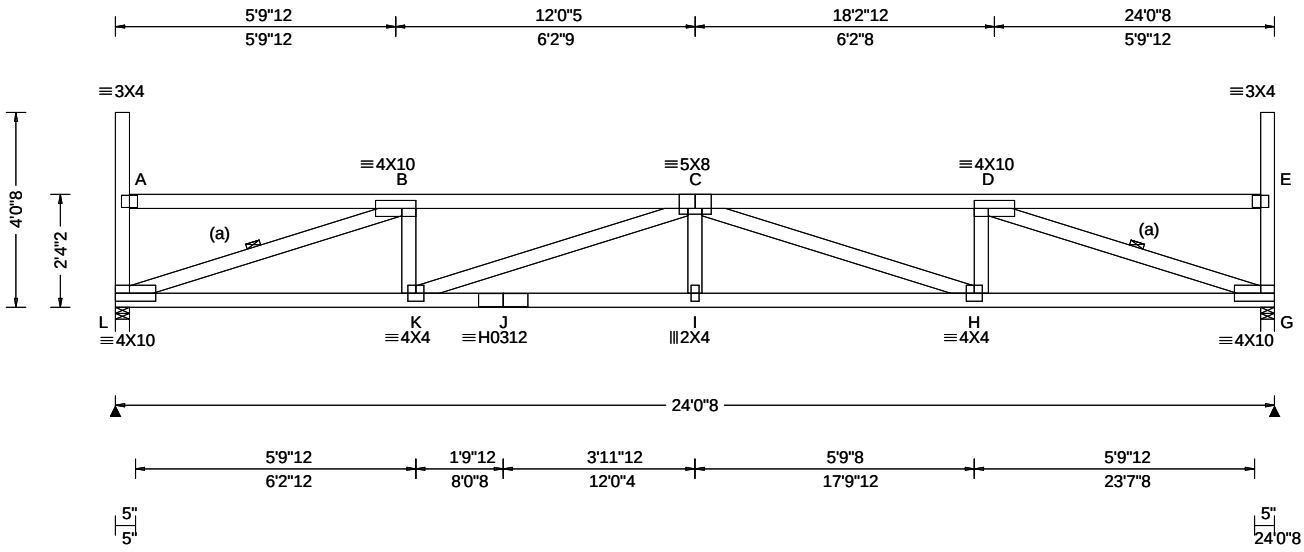
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34638 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T39	Cust: R 9316 JRef:1Xf493160001 T158 DrwNo: 119.22.1045.17045 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.296 I	975	360
VERT(CL):	0.507 I	569	240
HORZ(LL):	0.068 G	-	-
HORZ(TL):	0.116 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.542
Max BC CSI: 0.578
Max Web CSI: 0.723

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/612	/81	/131
G	1422	/-	/-	/612	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	188	-3386	C - D	189	-3384

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3291	-308	I - H	4342	-276
K - J	4342	-276	H - G	3290	-187
J - I	4342	-276			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	212	-3436	C - H	115	-1016
B - K	674	0	H - D	674	0
K - C	116	-1015	D - G	211	-3435

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.70	25.57	5.57
23.75	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

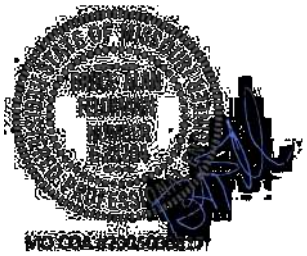
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

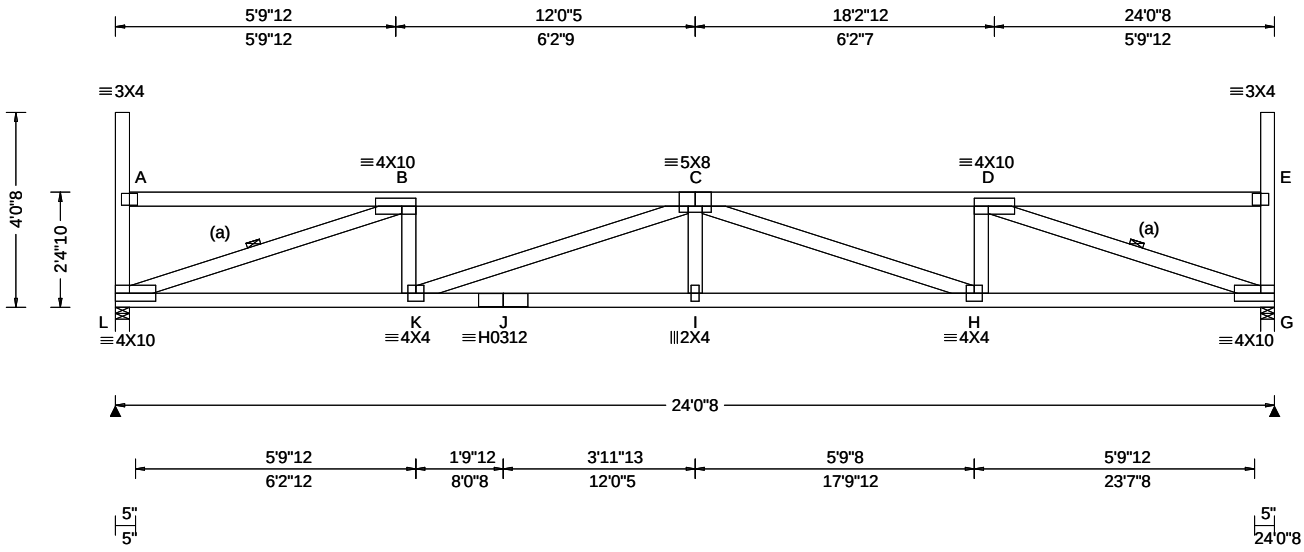
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34639 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T40	Cust: R 9316 JRef:1Xf493160001 T155 DrwNo: 119.22.1045.12606 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.285 I	999	360
VERT(CL):	0.488 I	590	240
HORZ(LL):	0.066 G	-	-
HORZ(TL):	0.114 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.529
Max BC CSI: 0.571
Max Web CSI: 0.713

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/612	/81	/129
G	1422	/-	/-	/612	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	185	-3320	C - D	185	-3319

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3227	-304	I - H	4257	-272
K - J	4257	-272	H - G	3226	-185
J - I	4257	-272			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	208	-3377	C - H	112	-998
B - K	674	0	H - D	674	0
K - C	114	-996	D - G	208	-3376

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

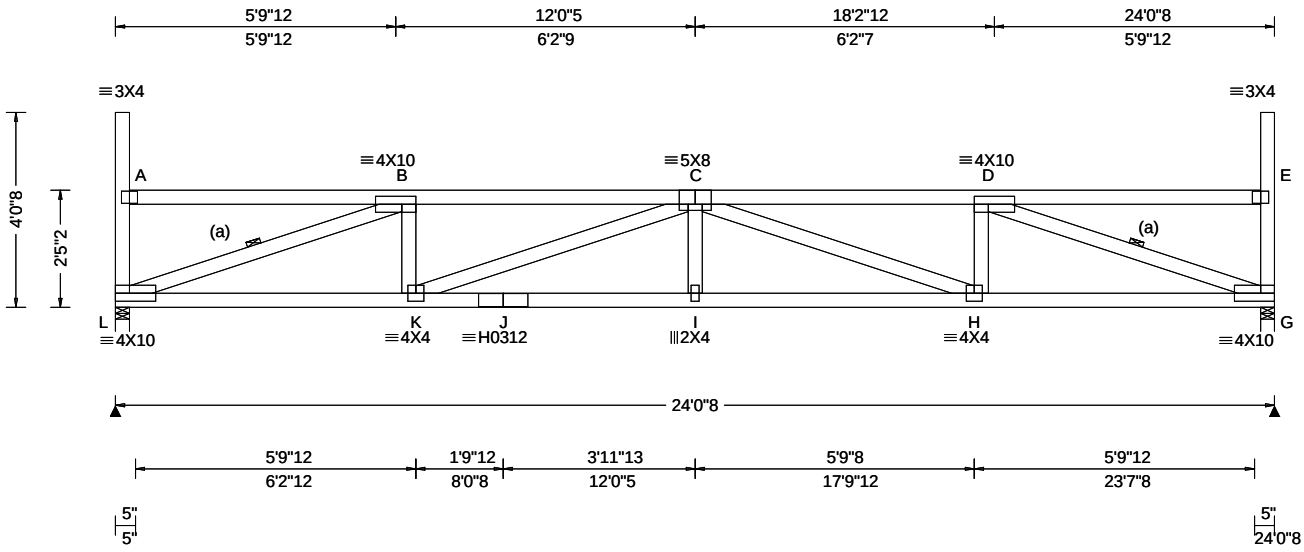
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34640 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T41	Cust: R 9316 JRef:1Xf493160001 T151 DrwNo: 119.22.1045.14209 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.275 I	999	360
VERT(CL):	0.471 I	612	240
HORZ(LL):	0.065 G	-	-
HORZ(TL):	0.112 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.516
Max BC CSI: 0.565
Max Web CSI: 0.703

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/81	/128
G	1422	/-	/-	/611	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	182	-3257	C - D	182	-3255

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3166	-299	I - H	4175	-268
K - J	4175	-268	H - G	3164	-184
J - I	4175	-268			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	205	-3320	C - H	110	-980
B - K	674	0	H - D	674	0
K - C	111	-979	D - G	205	-3319

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

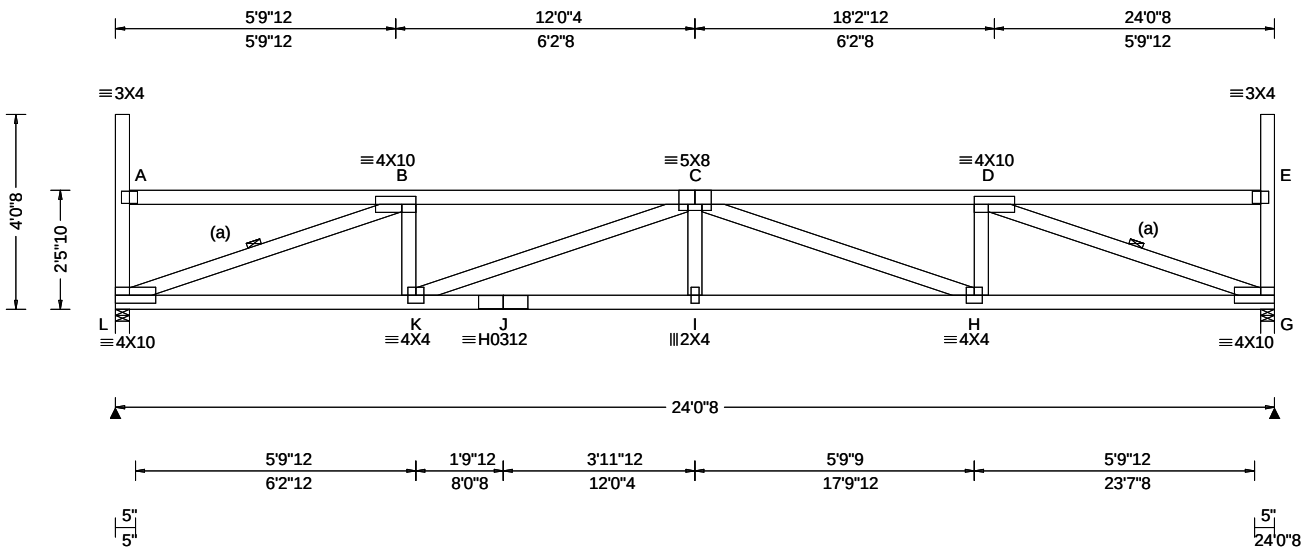
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34641 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T42	Cust: R 9316 JRef:1Xf493160001 T164 DrwNo: 119.22.1045.15386 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.265 I	999	360
VERT(CL):	0.454 I	635	240
HORZ(LL):	0.064 G	-	-
HORZ(TL):	0.110 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.510
Max BC CSI: 0.559
Max Web CSI: 0.693

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/81	/127
G	1422	/-	/-	/611	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	179	-3196	C - D	179	-3195

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3106	-294	I - H	4096	-265
K - J	4096	-265	H - G	3105	-182
J - I	4096	-265			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	202	-3266	C - H	108	-963
B - K	675	0	H - D	674	0
K - C	109	-962	D - G	201	-3265

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.57	21.42	5.16
23.75	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

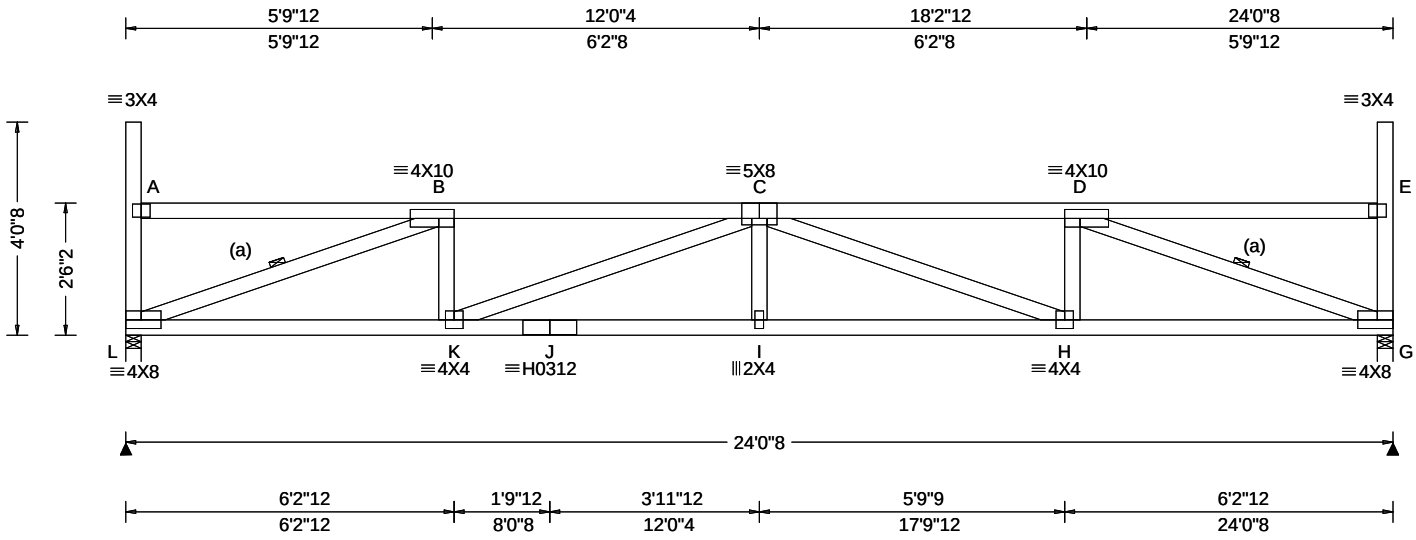
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34642 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T43	Cust: R 9316 JRef:1Xf493160001 T161 DrwNo: 119.22.1045.15203 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.256	I	999	360
VERT(CL): 0.438	I	658	240
HORZ(LL): 0.063	G	-	-
HORZ(TL): 0.108	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.507
Max BC CSI: 0.553
Max Web CSI: 0.684

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/81	/126
G	1422	/-	/-	/611	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	176	- 3137	C - D	177	- 3136

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3049	- 289	I - H	4020	- 261
K - J	4020	- 261	H - G	3048	- 180
J - I	4020	- 261			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	199	- 3213	C - H	105	- 947
B - K	675	0	H - D	674	0
K - C	106	- 946	D - G	198	- 3212

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.53	20.04	4.83
23.75	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

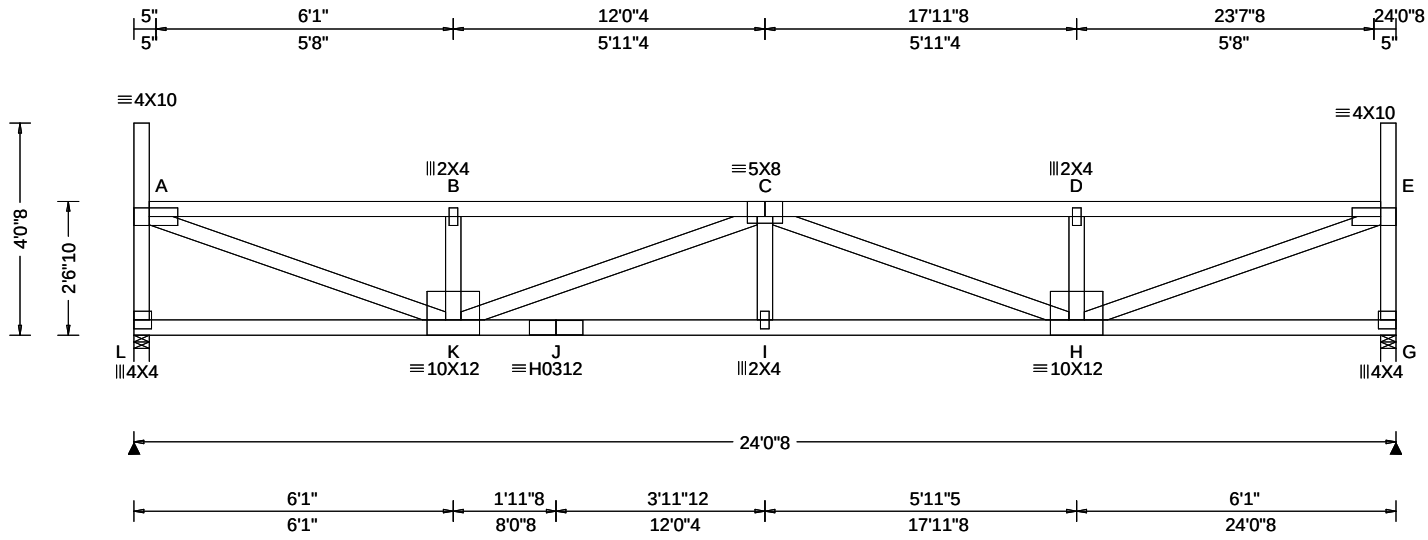
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34643 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T44	Cust: R 9316 JRef:1Xf493160001 T143 DrwNo: 119.22.1045.13791 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.260 I	999	360
VERT(CL):	0.445 I	647	240
HORZ(LL):	0.048 A	-	-
HORZ(TL):	0.082 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.642
Max BC CSI: 0.540
Max Web CSI: 0.774

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/82	/125
G	1422	/-	/-	/611	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	178	- 3063	C - D	177	- 3057
B - C	177	- 3058	D - E	178	- 3062

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3947	- 256	I - H	3947	- 256
J - I	3947	- 256			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	96	- 1290	C - H	99	- 952
A - K	3153	- 196	D - H	77	- 384
B - K	77	- 383	H - E	3152	- 197
K - C	102	- 951	E - G	96	- 1290

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.49	18.65	4.50
23.75	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

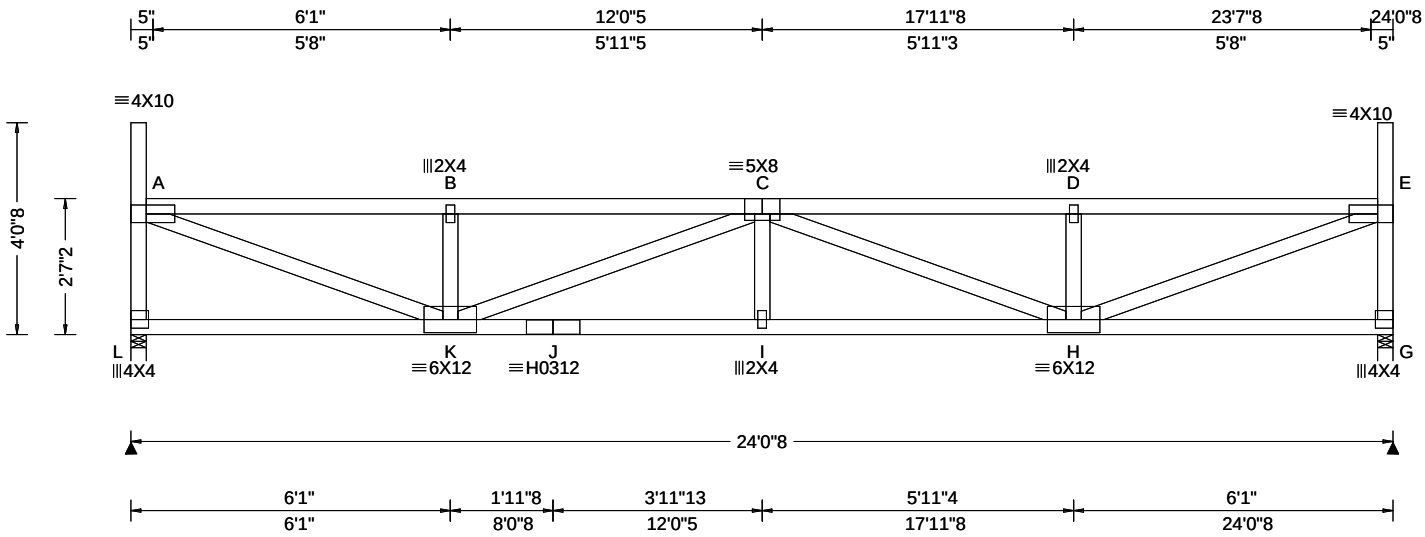
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34644 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T45	Cust: R 9316 JRef:1Xf493160001 T153 DrwNo: 119.22.1045.15319 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.251 I	999	360
VERT(CL):	0.430 I	670	240
HORZ(LL):	0.047 A	-	-
HORZ(TL):	0.081 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.628
Max BC CSI: 0.535
Max Web CSI: 0.762

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/82	/124
G	1422	/-	/-	/611	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	175	-3009	C - D	174	-3003
B - C	175	-3004	D - E	175	-3008

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3876	-253	I - H	3876	-253
J - I	3876	-253			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	96	-1290	C - H	97	-937
A - K	3104	-193	D - H	77	-385
B - K	77	-385	H - E	3102	-194
K - C	100	-935	E - G	96	-1290

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.45	17.27	4.16
23.75	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

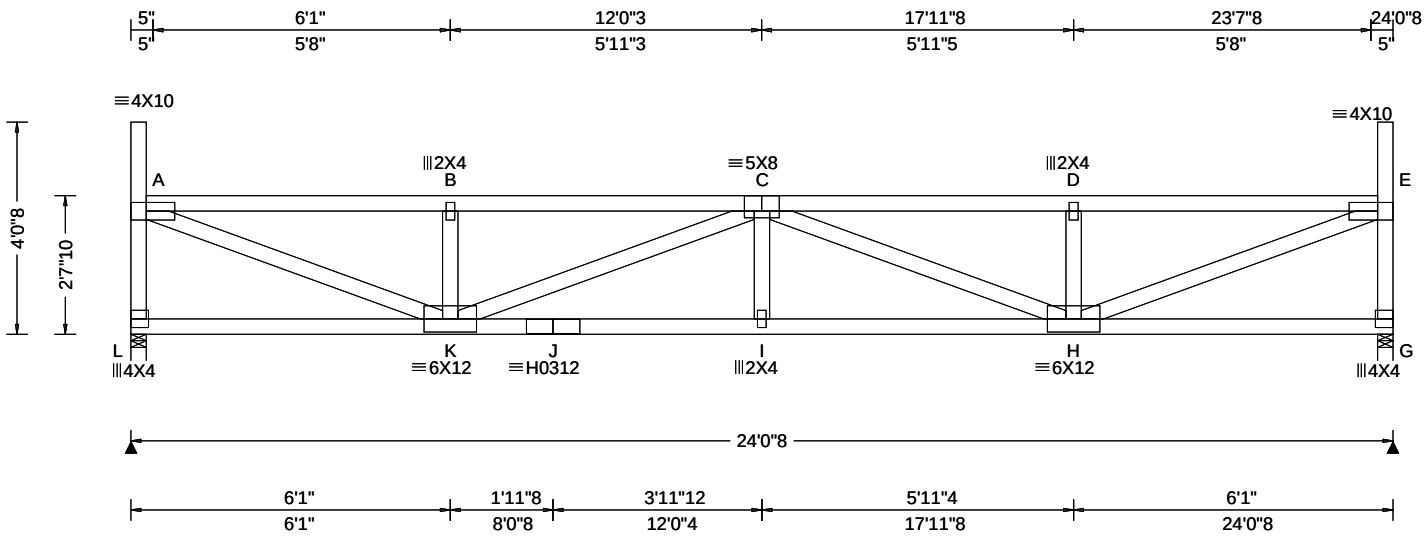
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34645 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T46	Cust: R 9316 JRef:1Xf493160001 T148 DrwNo: 119.22.1045.12234 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.243 I	999	360
VERT(CL):	0.416 I	692	240
HORZ(LL):	0.046 A	-	-
HORZ(TL):	0.080 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.618
Max BC CSI: 0.528
Max Web CSI: 0.750

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/82	/122
G	1422	/-	/-	/611	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	173	- 2956	C - D	172	- 2951
B - C	172	- 2951	D - E	172	- 2956

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3808	- 249	I - H	3808	- 249
J - I	3808	- 249			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	96	- 1291	C - H	95	- 921
A - K	3055	- 190	H - E	3055	- 191
B - K	77	- 386	D - H	77	- 387
K - C	97	- 921	E - G	96	- 1290

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.41	15.89	3.83
23.75	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.17". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

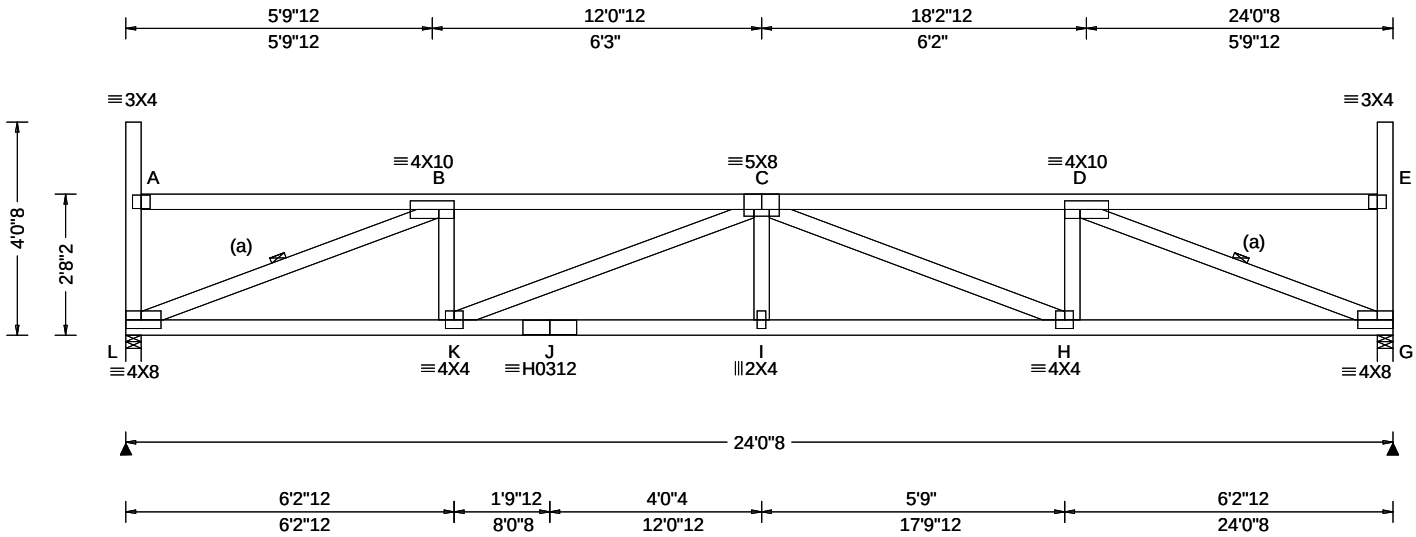
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34646 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T47	Cust: R 9316 JRef:1Xf493160001 T163 DrwNo: 119.22.1045.13631 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.224	I	999	360
VERT(CL): 0.383	I	752	240
HORZ(LL): 0.058	G	-	-
HORZ(TL): 0.100	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.501
Max BC CSI: 0.534
Max Web CSI: 0.652

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/82	/121
G	1422	/-	/-	/611	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	166	- 2923	C - D	166	- 2920

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	2841	- 272	I - H	3742	- 248
K - J	3742	- 248	H - G	2838	- 173
J - I	3742	- 248			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	188	- 3024	C - H	96	- 890
B - K	673	0	H - D	676	0
K - C	98	- 885	D - G	187	- 3020

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.22" DL: 0.16". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

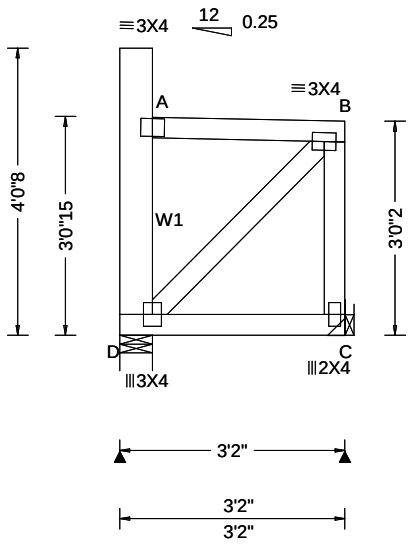
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34734 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48	Cust: R 9316 JRef:1Xf493160001 T139 DrwNo: 119.22.1045.11448 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.04 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.001	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.139
Max BC CSI: 0.103
Max Web CSI: 0.028

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	160	/-	/-	/95	/52	/78
C	188	/-	/-	/134	/46	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

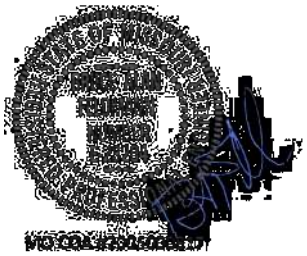
Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

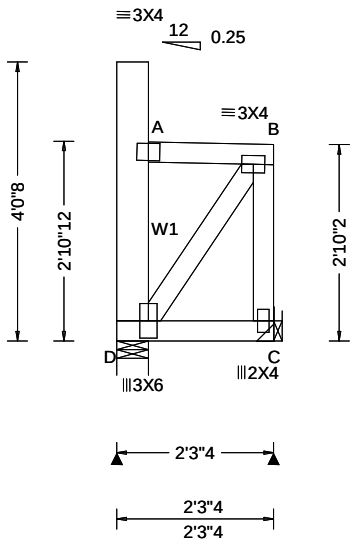
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34648 / MONO FROM:	Ply: 1 Qty: 16	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T49	Cust: R 9316 JRef:1Xf493160001 T230 DrwNo: 119.22.1045.17805 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.87 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.065
Max BC CSI: 0.052
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	107	/-	/-	/87	/77	/80
C	133	/-	/-	/135	/60	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

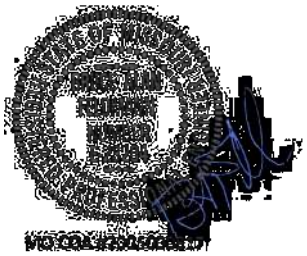
Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

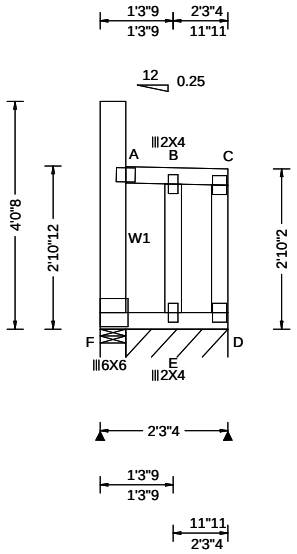
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34649 / MONO FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T50	Cust: R 9316 JRef:1Xf493160001 T128 DrwNo: 119.22.1045.16585 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.87 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.006	A	999	360
VERT(CL): 0.008	A	999	240
HORZ(LL): 0.111	B	-	-
HORZ(TL): 0.128	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.110
Max BC CSI: 0.254
Max Web CSI: 0.115

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	33	/-11	/-	/96	/138	/80
D*	128	/-	/-	/130	/57	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 21.7 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

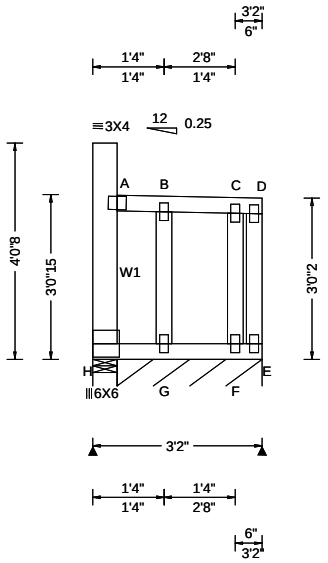
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34650 / GABL FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T51	Cust: R 9316 JRef:1Xf493160001 T114 DrwNo: 119.22.1045.18104 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.04 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	A	999	360
VERT(CL): 0.009	A	999	240
HORZ(LL): 0.121	C	-	-
HORZ(TL): 0.142	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.087
Max BC CSI: 0.243
Max Web CSI: 0.109

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	41	/-	/-	/117	/130	/90
E*	113	/-	/-	/96	/43	/-

Wind reactions based on MWFRS
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 32.5 Min Req = -
Bearings H & H are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

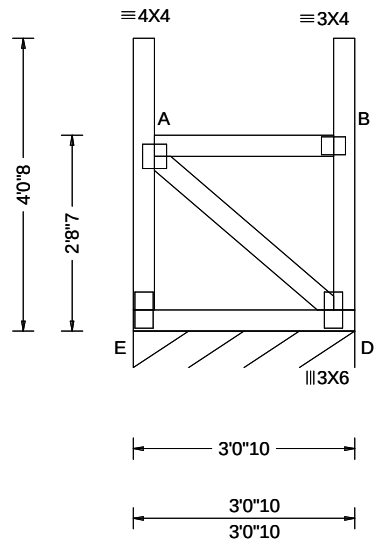
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34651 / GABL FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T52	Cust: R 9316 JRef:1Xf493160001 T216 DrwNo: 119.22.1045.17870 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.000	A	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): -0.001	B	-	-
HORZ(TL): 0.002	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.142
Max BC CSI: 0.107
Max Web CSI: 0.221

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	113	/-	/-	/45	/4	/39

Wind reactions based on MWFRS
D Brg Wid = 36.6 Min Req = -
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
A - D	382	-387

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.00	1.34	13.63	2.47
2.76	0.00	20.00	1.34	13.63	2.47

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

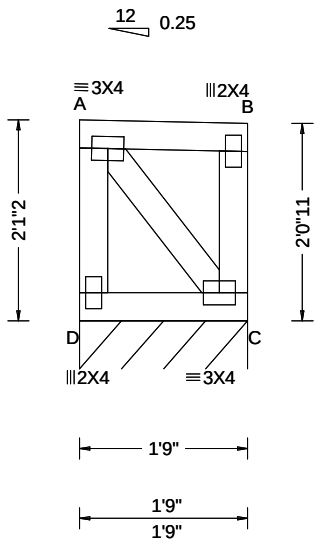
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

MO COA #2005000817

Building 7

SEQN: 34652 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE01	Cust: R 9316 JRef:1Xf493160001 T188 DrwNo: 119.22.1045.19374 / NDW 04/29/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.08 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.032 Max Web CSI: 0.021 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 21.0 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

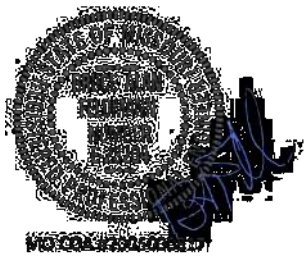
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

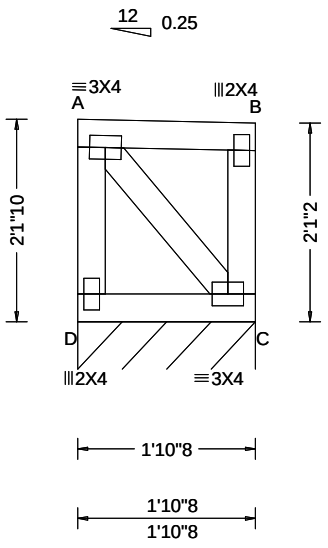
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

MO COA #2005000817

Building 7

SEQN: 34653 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE02	Cust: R 9316 JRef:1Xf493160001 T189 DrwNo: 119.22.1045.16463 / NDW 04/29/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.12 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.022 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/18

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

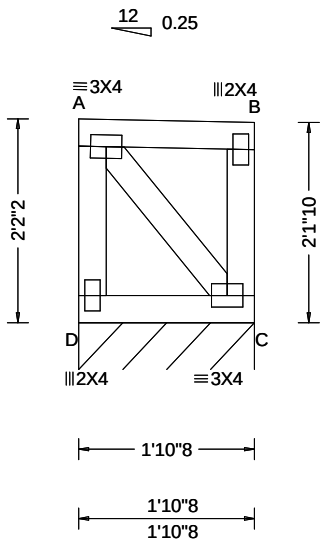
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34654 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE03	Cust: R 9316 JRef:1Xf493160001 T190 DrwNo: 119.22.1045.18714 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.16 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.023

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

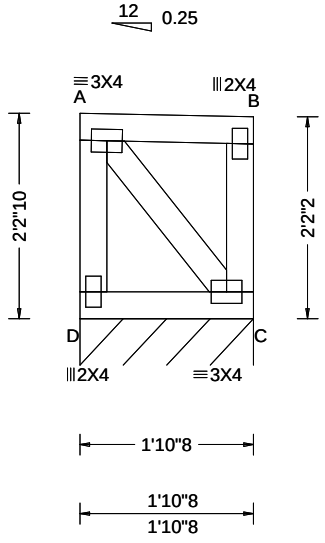
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34655 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE04	Cust: R 9316 JRef:1Xf493160001 T192 DrwNo: 119.22.1045.18627 / NDW 04/29/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.20 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.024 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

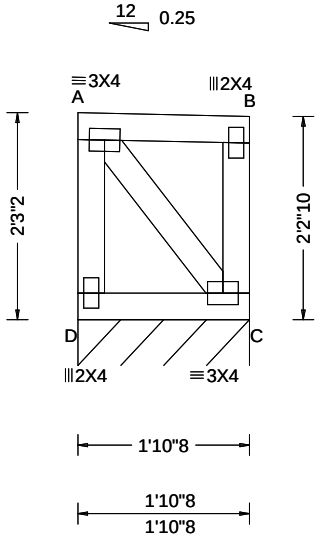
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34656 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE05	Cust: R 9316 JRef:1Xf493160001 T215 DrwNo: 119.22.1045.11614 / NDW 04/29/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.24 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.025 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

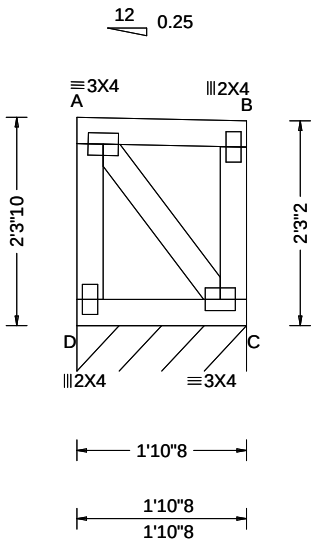
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

MO COA #2005000817

SEQN: 34657 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE06	Cust: R 9316 JRef:1Xf493160001 T219 DrwNo: 119.22.1045.11275 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.28 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.026

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

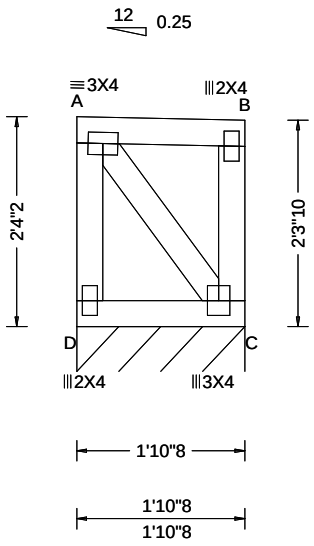
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34658 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE07	Cust: R 9316 JRef:1Xf493160001 T220 DrwNo: 119.22.1045.12364 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.32 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.027

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

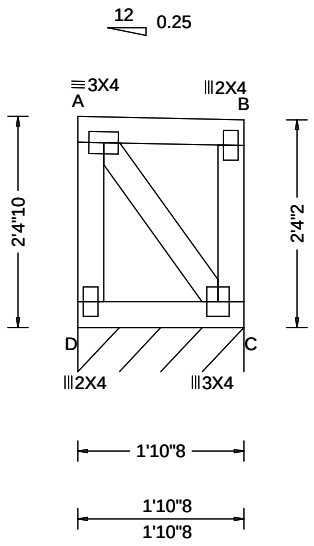
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34659 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE08	Cust: R 9316 JRef:1Xf493160001 T221 DrwNo: 119.22.1045.12892 / NDW 04/29/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.028 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

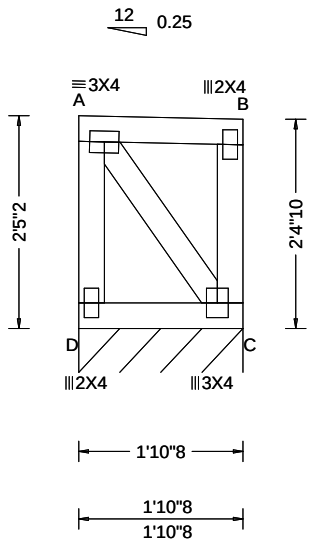
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34660 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE09	Cust: R 9316 JRef:1Xf493160001 T222 DrwNo: 119.22.1045.15525 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.41 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.029

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

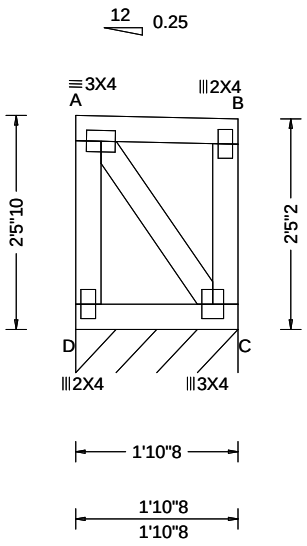
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34661 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE10	Cust: R 9316 JRef:1Xf493160001 T223 DrwNo: 119.22.1045.15991 / NDW 04/29/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.45 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.031 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

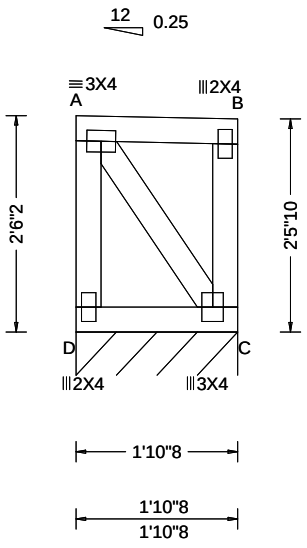
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34662 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE11	Cust: R 9316 JRef:1Xf493160001 T224 DrwNo: 119.22.1045.18447 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.49 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.032

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

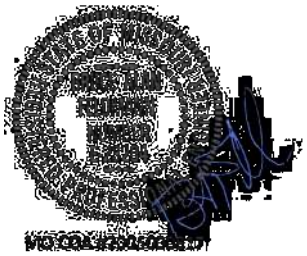
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

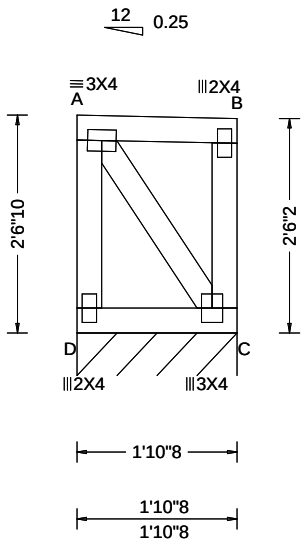
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34663 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE12	Cust: R 9316 JRef:1Xf493160001 T225 DrwNo: 119.22.1045.11676 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.033

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

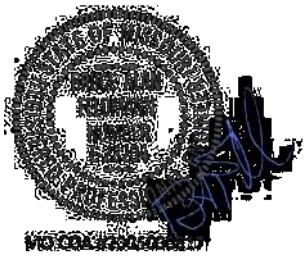
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

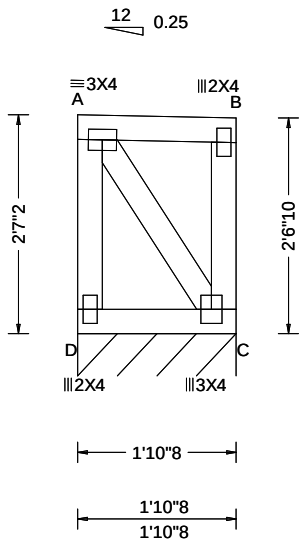
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34664 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE13	Cust: R 9316 JRef:1Xf493160001 T226 DrwNo: 119.22.1045.11869 / NDW 04/29/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.035 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

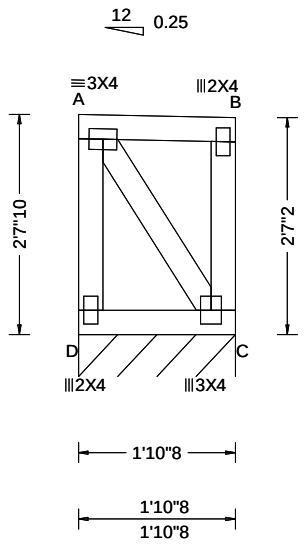
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34665 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE14	Cust: R 9316 JRef:1Xf493160001 T227 DrwNo: 119.22.1045.11274 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.62 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.036

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

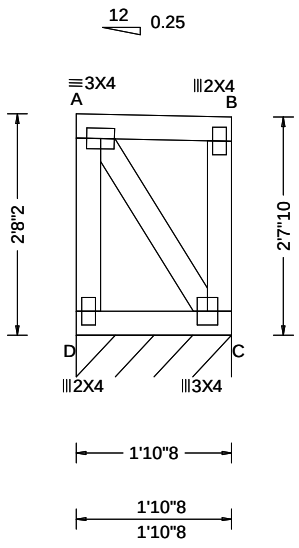
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34666 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE15	Cust: R 9316 JRef:1Xf493160001 T228 DrwNo: 119.22.1045.17989 / NDW 04/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.037 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

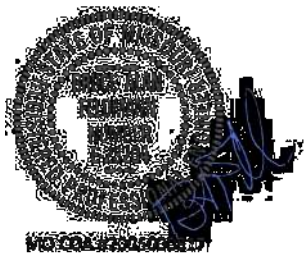
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

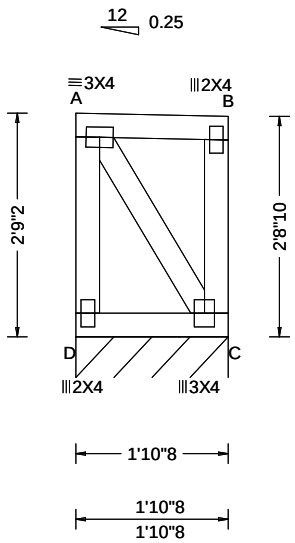
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

MO COA #2005000817

Building 7

SEQN: 34667 / MONO FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE16	Cust: R 9316 JRef:1Xf493160001 T251 DrwNo: 119.22.1045.11165 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.74 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.040

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

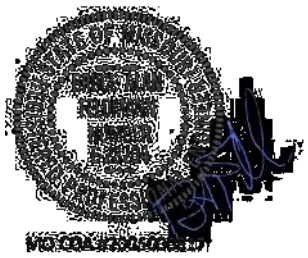
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

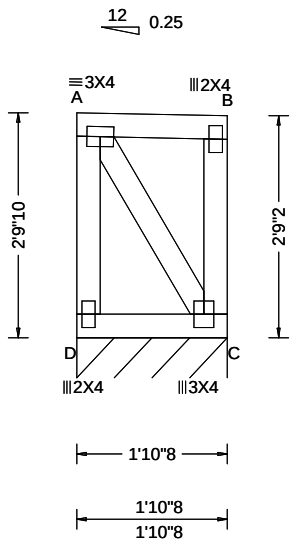
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

MO COA #2005000817

Building 7

SEQN: 34668 / MONO FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE17	Cust: R 9316 JRef:1Xf493160001 T252 DrwNo: 119.22.1045.11239 / NDW 04/29/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.78 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

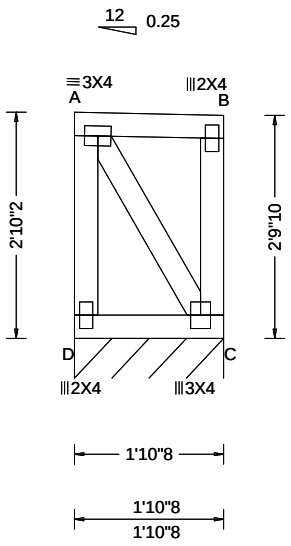
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34669 / MONO FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE18	Cust: R 9316 JRef:1Xf493160001 T253 DrwNo: 119.22.1045.11436 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.82 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

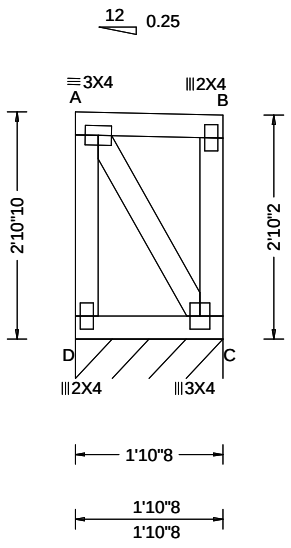
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

MO COA #2005000817

Building 7

SEQN: 34670 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE19	Cust: R 9316 JRef:1Xf493160001 T254 DrwNo: 119.22.1045.12471 / NDW 04/29/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.044 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/27

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

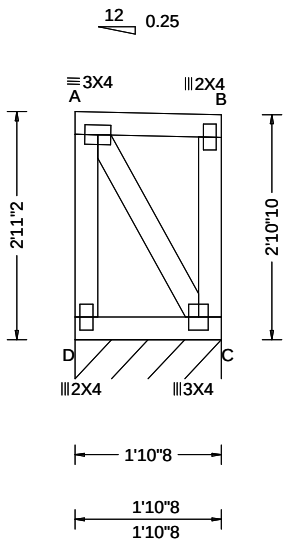
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34671 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE20	Cust: R 9316 JRef:1Xf493160001 T255 DrwNo: 119.22.1045.11240 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.57 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.046

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

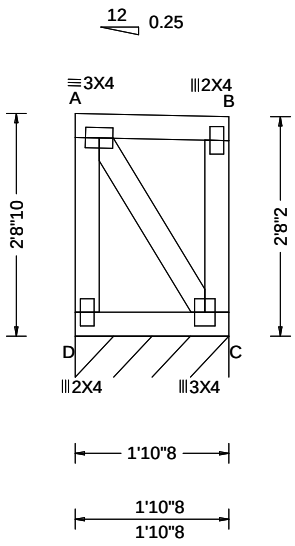
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34674 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE23	Cust: R 9316 JRef:1Xf493160001 T231 DrwNo: 119.22.1045.15712 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.038

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

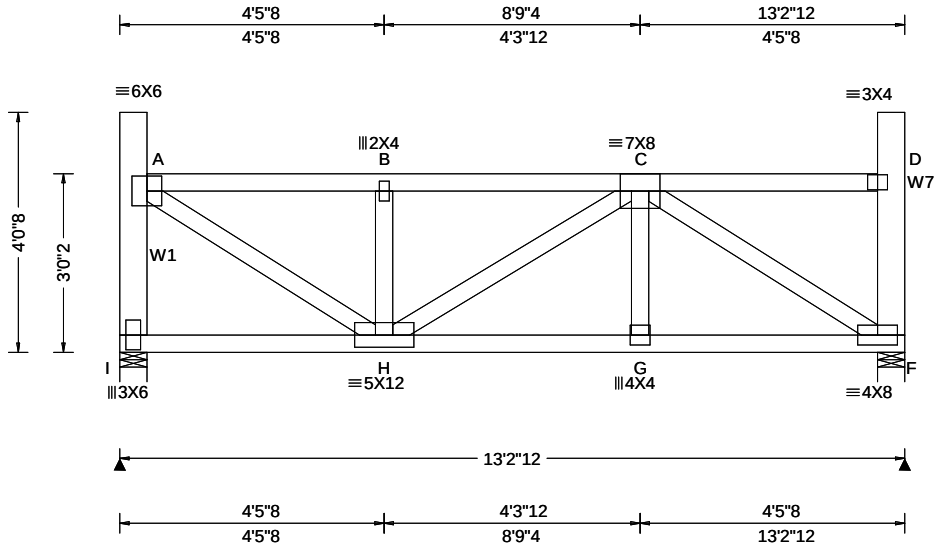
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34713 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T09	Cust: R 9316 JRef:1Xf493160001 T21 DrwNo: 119.22.1137.53167 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.042 G	999	360
VERT(CL):	0.072 G	999	240
HORZ(LL):	0.014 F	-	-
HORZ(TL):	0.024 F	-	-

Creep Factor: 2.0
Max TC CSI: 0.296
Max BC CSI: 0.918
Max Web CSI: 0.785

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	1362	/-	/-	/-	/174	/-
F	1285	/-	/-	/-	/149	/-

Wind reactions based on MWFRS
I Brg Wid = 5.5 Min Req = 2.1 (Truss)
F Brg Wid = 5.5 Min Req = 2.0 (Truss)
Bearings I & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	207	- 1665	B - C	206	- 1660

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	1647	- 194	G - F	1647	- 194

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - A	127	- 1095	C - G	646	- 93
A - H	1801	- 222	C - F	219	- 1873

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 50 plf at 0.00 to 50 plf at 13.23
BC: 188 lb Conc. Load at 1.17, 3.17, 5.17,11.17
BC: 186 lb Conc. Load at 7.17, 9.17

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

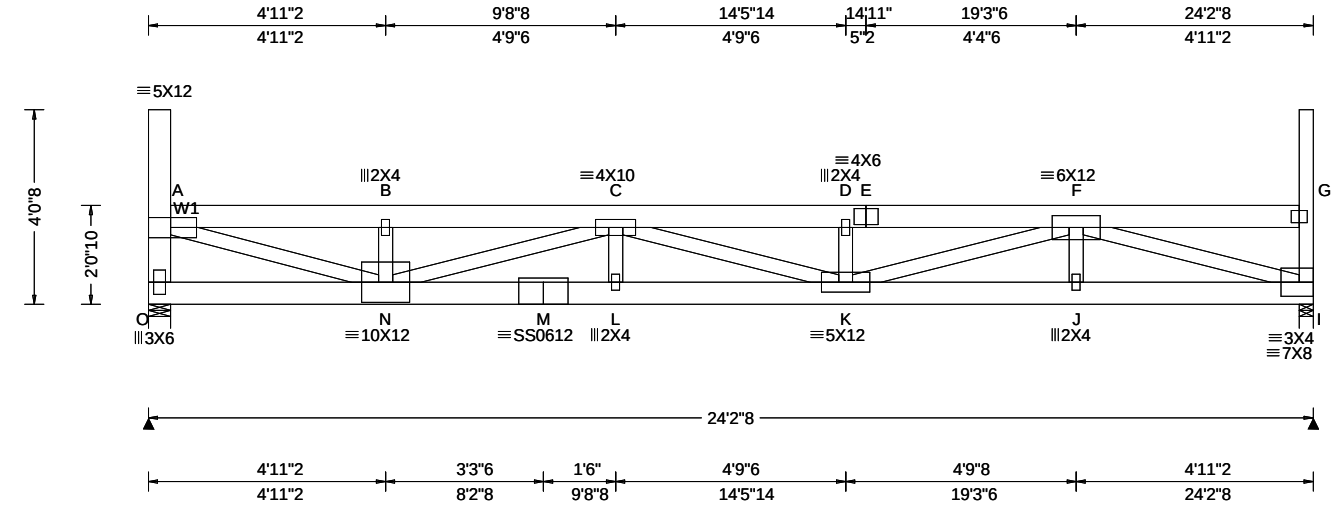
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34719 FLAT FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T16	Cust: R 9316 JRef:1Xf493160001 T13 DrwNo: 119.22.1137.57290 / BAF 04/29/2022	

2 Complete Trusses Required



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.265 D 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.454 D 639 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.040 I - -
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.069 I - -
NCBCLL: 0.00	Mean Height: 21.05 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.209
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.603
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.840
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
O	2301 /-	/-	/-	/390	/-
I	2308 /-	/-	/-	/396	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 1.8 (Truss)
I Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	515	-2972	D - E	772	-4360
B - C	514	-2964	E - F	772	-4360
C - D	772	-4360			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	4355	-765	K - J	2960	-523
M - L	4355	-765	J - I	2960	-523
L - K	4355	-765			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	171	-1032	K - F	1475	-263
A - N	2937	-510	F - I	543	-3070
N - C	264	-1466			

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @11.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 23.92
BC: From 50 plf at 0.00 to 50 plf at 24.21
BC: 160 lb Conc. Load at 2.06,10.06,12.06,14.06 16.06,20.06,22.06
BC: 158 lb Conc. Load at 4.06, 6.06, 8.06,18.06

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.99	34.38	4.14
23.92	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

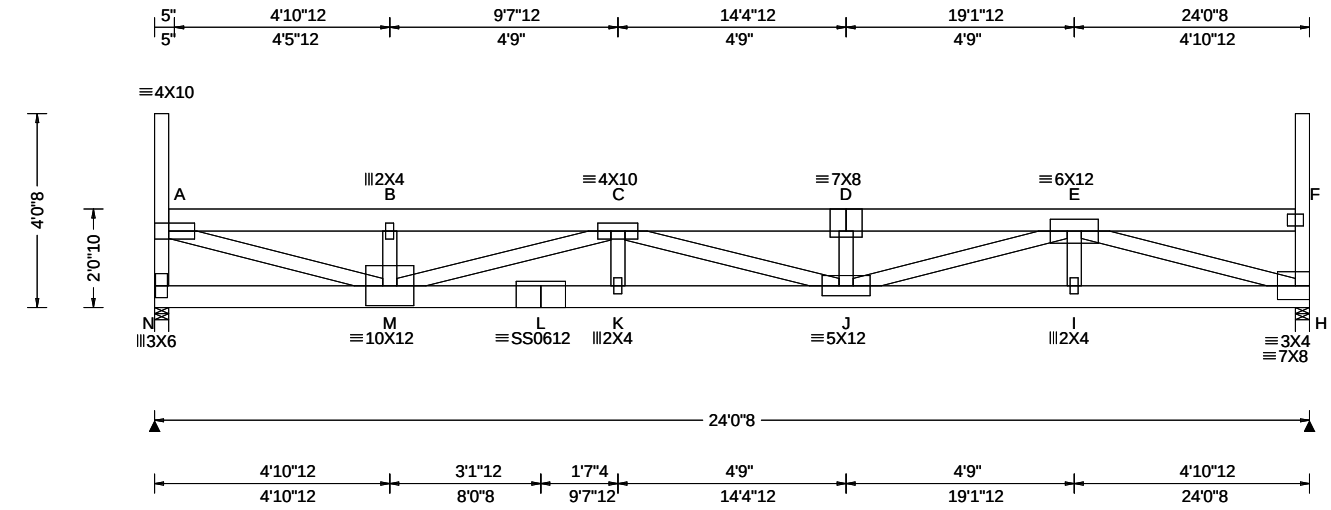
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34722 FLAT FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T32	Cust: R 9316 JRef:1Xf493160001 T16 DrwNo: 119.22.1138.04813 / BAF 04/29/2022	

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.259	D	999	360
VERT(CL): 0.444	D	650	240
HORZ(LL): 0.039	H	-	-
HORZ(TL): 0.068	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.205
Max BC CSI: 0.595
Max Web CSI: 0.825

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	2310	/-	/-	/-	/397	/-
H	2293	/-	/-	/-	/396	/-

Wind reactions based on MWFRS
N Brg Wid = 3.5 Min Req = 1.8 (Truss)
H Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	519	- 2942	C - D	770	- 4302
B - C	518	- 2934	D - E	770	- 4302

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	4302	- 768	J - I	2922	- 520
L - K	4302	- 768	I - H	2922	- 520
K - J	4302	- 768			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	174	- 1037	J - E	1456	- 264
A - M	2963	- 524	E - H	541	- 3032
M - C	264	- 1442			

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @11.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 23.75
BC: From 50 plf at 0.00 to 50 plf at 24.04
BC: 160 lb Conc. Load at 1.90, 7.90, 9.90,11.90 13.90,15.90,19.90,21.90
BC: 158 lb Conc. Load at 3.90, 5.90,17.90

Loading
Drifting snow load has been considered for only in plane loading as follows:

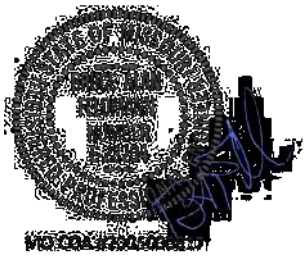
Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.99	34.38	4.14
23.75	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

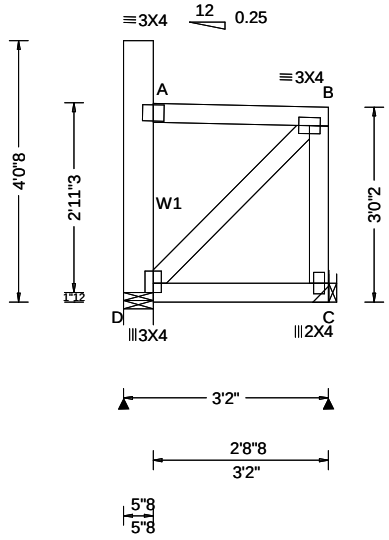
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34701 / MONO FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48A	Cust: R 9316 JRef:1Xf493160001 T17 / DrwNo: 119.22.1045.17584 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.04 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.139
Max BC CSI: 0.109
Max Web CSI: 0.028

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	139	/-	/-	/81	/42	/34
C	186	/-	/-	/113	/32	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

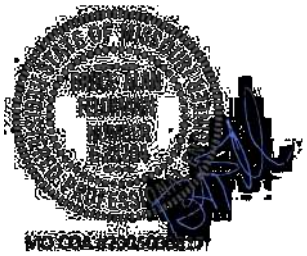
Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

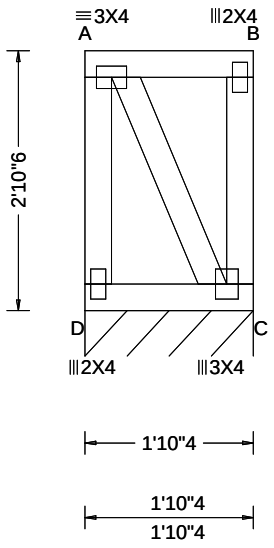
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34704 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE22	Cust: R 9316 JRef:1Xf493160001 T7 DrwNo: 119.22.1138.13900 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.052
Max BC CSI: 0.037
Max Web CSI: 0.043

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/27

Wind reactions based on MWFRS
C Brg Wid = 22.2 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

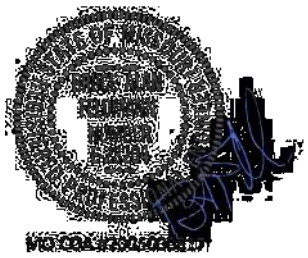
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

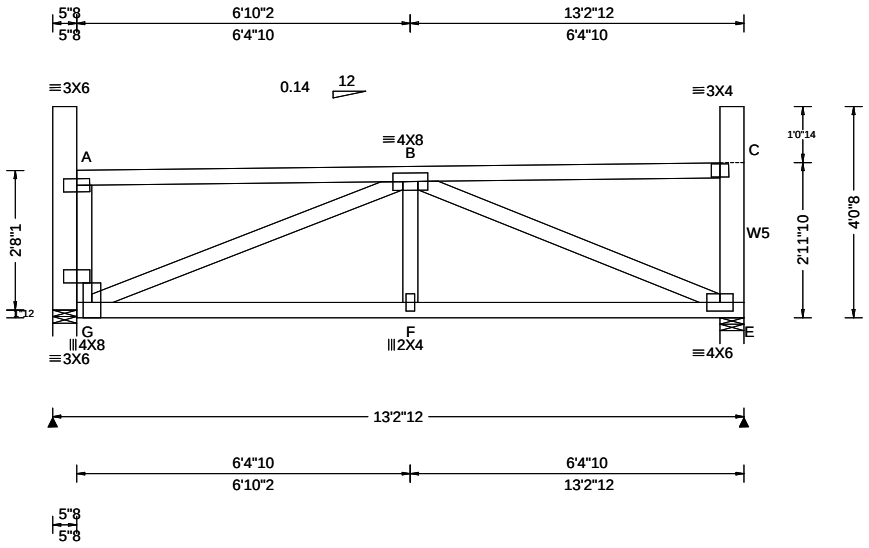
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34731 SPEC FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T08	Cust: R 9316 JRef:1Xf493160001 T20 DrwNo: 119.22.1137.47423 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.89 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.040 F	999	360
VERT(CL):	0.069 F	999	240
HORZ(LL):	0.014 E	-	-
HORZ(TL):	0.024 E	-	-

Creep Factor: 2.0
Max TC CSI: 0.708
Max BC CSI: 0.758
Max Web CSI: 0.954

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	759	/-	/-	/339	/58	/119
E	741	/-	/-	/330	/54	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Support)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1155	- 149	F - E	1155	- 149

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	585	- 47	G - B	163	- 1213
G - A	74	- 766	B - E	154	- 1190

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W5 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.22	9.66	2.33

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

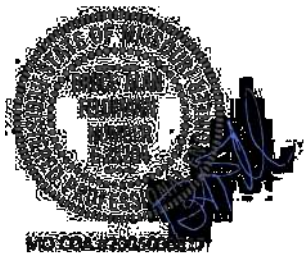
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

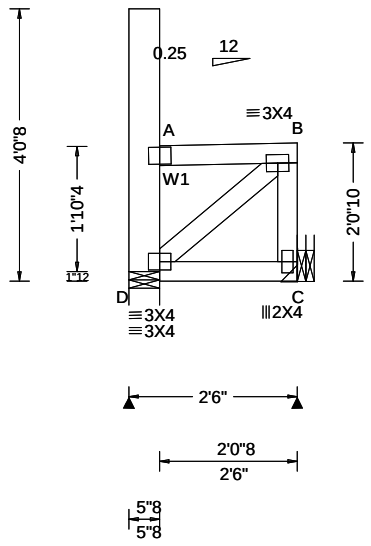
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34716 / MONO FROM: JRQ	Ply: 1 Qty: 14	**Job Number:** JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02A	Cust: R 9316 JRef:1Xf493160001 T4 / DrwNo: 119.22.1045.12065 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.102
Max BC CSI: 0.066
Max Web CSI: 0.106

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	113	/-	/-	/89	/75	/61
C	158	/-	/-	/132	/55	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Gable Stud Reinforcement Detail
ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 "L" Brace * Group A	(1) 1x4 "L" Brace * Group B	(1) 2x4 "L" Brace * Group A	(1) 2x4 "L" Brace * Group B	(2) 2x4 "L" Brace ** Group A	(2) 2x4 "L" Brace ** Group B	(1) 2x6 "L" Brace * Group A	(1) 2x6 "L" Brace * Group B	(2) 2x6 "L" Brace ** Group A	(2) 2x6 "L" Brace ** Group B
24" o.c.	SPF HF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"
16" o.c.	SPF HF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

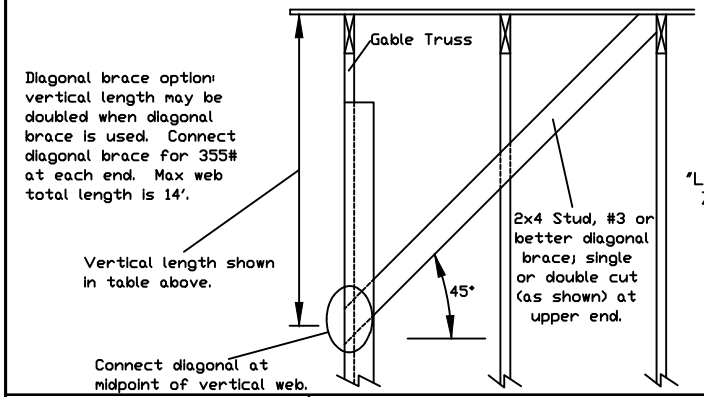
Attach "L" braces with 10d (0.128"x3.0" min) nails.

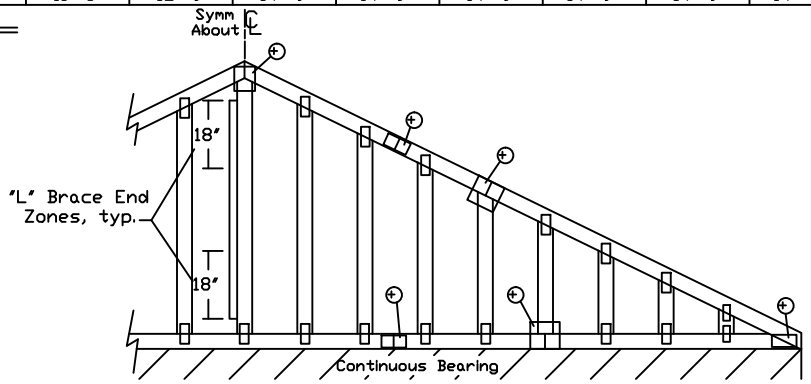
* For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

"L" bracing must be a minimum of 80% of web member length.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 355# at each end. Max web total length is 14'.





Refer to chart above for max. gable vertical length.

Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

ALPINE® AN ITW COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

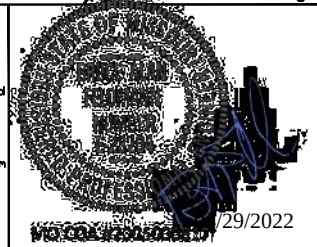
WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT: FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-16-GAB11530
DATE 01/26/2018
DRWG A11530ENC160118

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforecement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

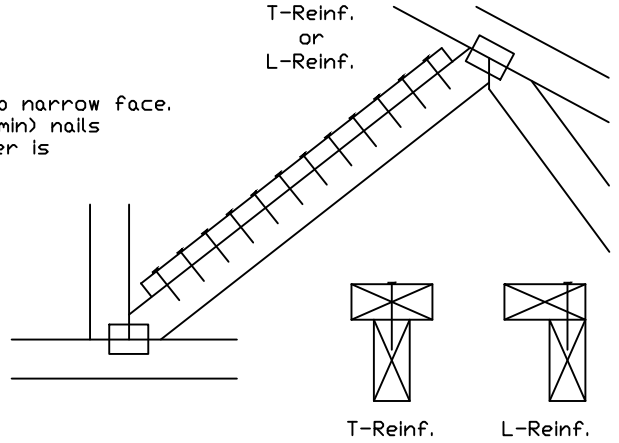
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Alternative Reinforecement Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

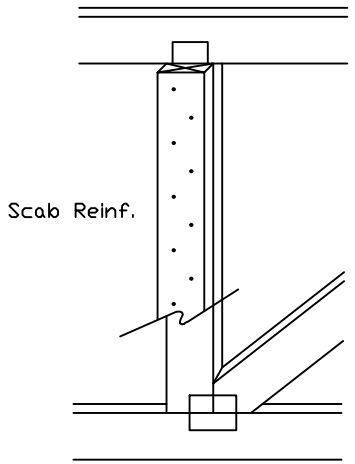
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

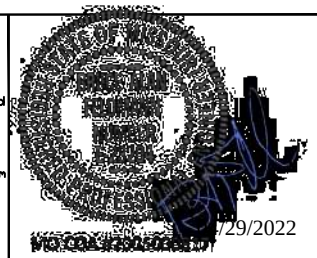
****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



/29/2022

TC LL	PSF	
TC DL	PSF	
BC DL	PSF	
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

REF	CLR Subst.
DATE	01/02/19
DRWG	BRCLBSUB0119

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

4/29/2022

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C
Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail for lumber, plates, and other information not shown on this detail.

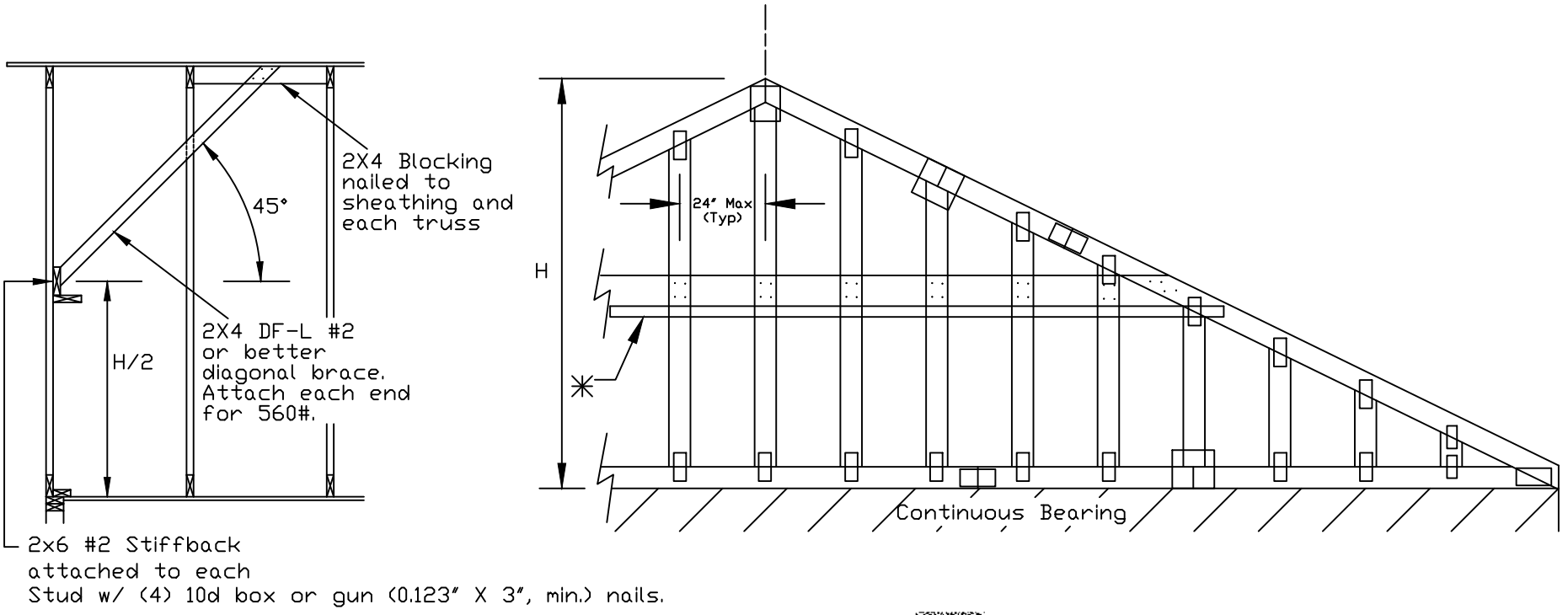
Nails: 10d box or gun (0.128"x3",min) nails.

H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback to roof diaphragm every 6'0" (see detail below or refer to DRWG A12030ENC160118).

H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace to roof diaphragm every 4'0" (see detail below or refer to DRWG A12030ENC160118).

✳ Optional 2x L-reinforcement attached to stiffback with 10d box or gun (0.128" x 3", min.) nails @ 6" o.c.



ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

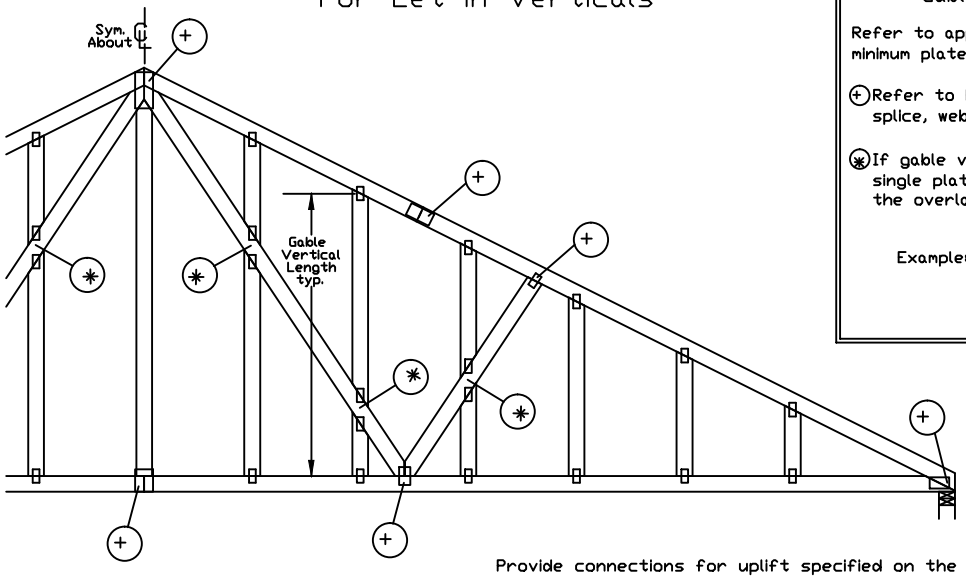
4/29/2022

MAX. TOT. LD. 60 PSF

MAX. SPACING

REF	GE WHALER
DATE	01/02/2018
DRWG	GABRST160118

Gable Detail
For Let-in Verticals



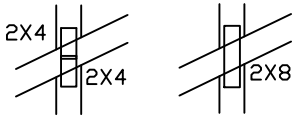
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

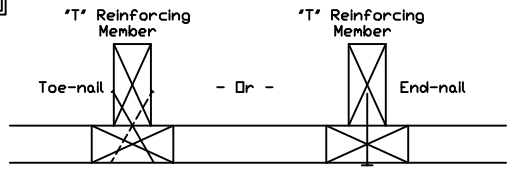
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊛ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



"T" Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:
10d Common (0.148"x 3.",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

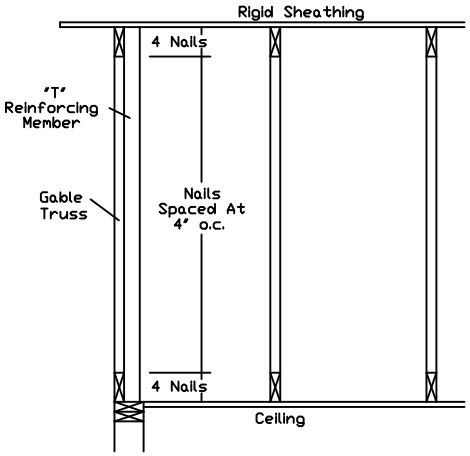
Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24"o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

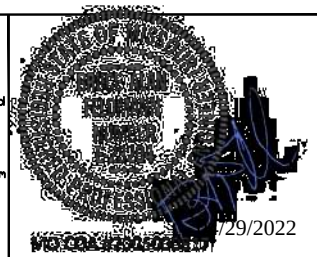
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



/29/2022

MAX. TOT. LD. 60 PSF
DUR. FAC. ANY
MAX. SPACING 24.0"

REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 10, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 8 Floor Layout Shop Drawings	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Group 8 Floor Layout

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 5/23/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRi ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

HANGER CHART			
Symbol	Name	Qty	Manufacturer
=	THA422	126	Simpson
=	THA422-2	4	Simpson

Total Plan Area with OHs = 4292 sq.ft

Total Truss Quantity = 180.

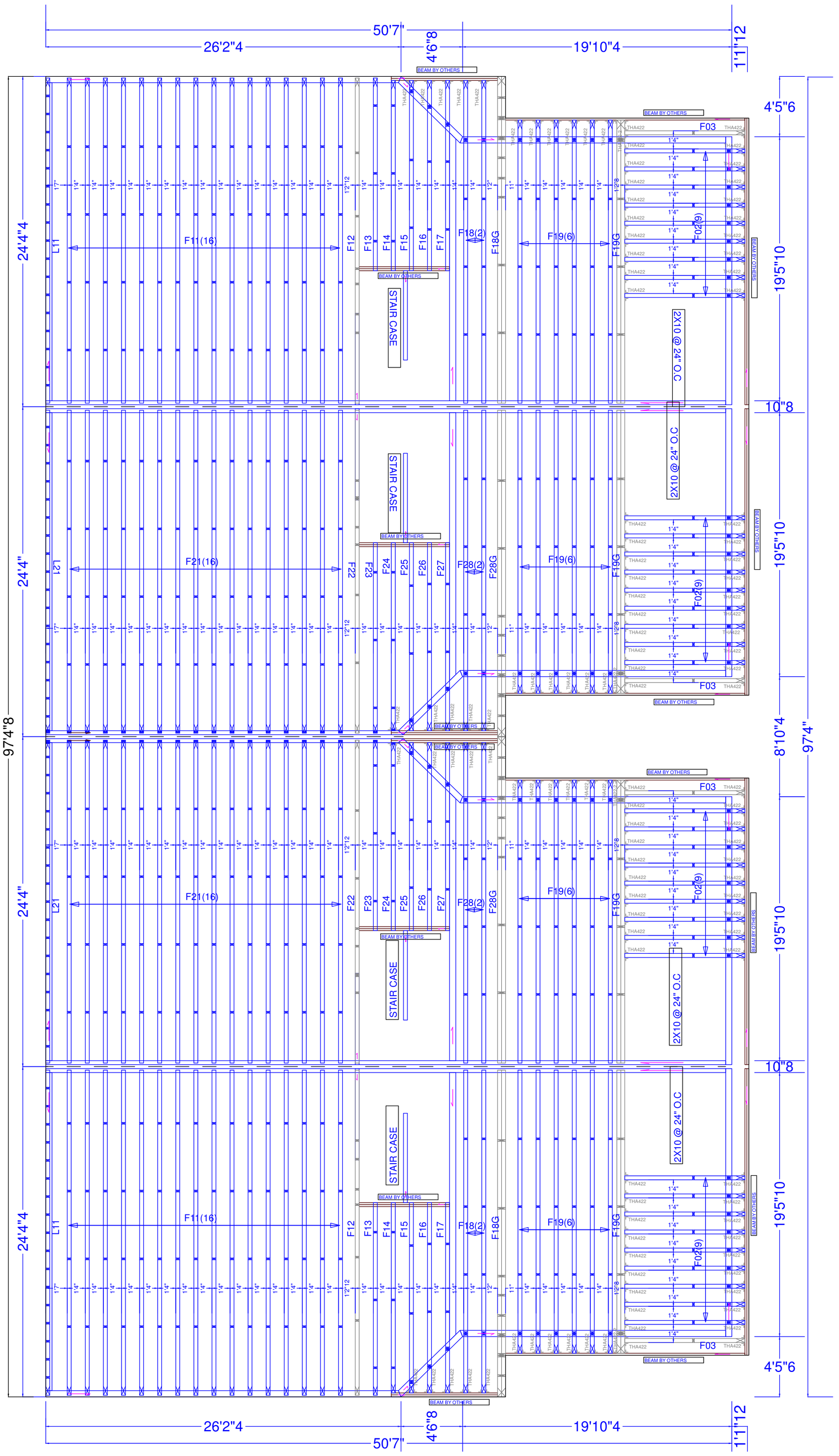
SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED, REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS
DATE: 05/10/2022 BY: CB



DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

mill Creek
3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-6108

Job Name: McCambridge Brothers Construction

Designer: Juan R Quiroz

Reference #: JB-220687

Date: 3/17/2022

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address:
2100 NW Lowenstein Dr
Lee's Summit
MO

Building 8

Alpine, an ITW company
514 Earth City Expressway
Suite 242
Earth City, MO 63045
Phone: (800)326-4102 (314)344-9121
alpineitw.com

03/17/2022

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 5/23/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

ALPINE AN ITW COMPANY

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED, REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/10/2022 *BY:* CB

Site Information:	**Page 1:**
Customer: Mill Creek Truss	*Job Number:* JB-220687
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1XdX93160006
Wind Standard: ASCE716 *Wind Speed (mph):* 0 *Building Type:*	*Design Loading (psf):* 75.00

This package contains general notes pages, 24 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	076.22.1319.16346	F02
3	076.22.1319.17264	F11
5	076.22.1319.16966	F13
7	076.22.1319.16798	F15
9	076.22.1319.17318	F17
11	076.22.1319.17238	F18G
13	076.22.1319.22564	F19G
15	076.22.1319.17452	F22
17	076.22.1319.16412	F24
19	076.22.1319.16695	F26
21	076.22.1319.16644	F28
23	076.22.1319.17003	L11
25	CNSY42PL0118	
27	LSCSYX2A1014	

Item	Drawing Number	Truss
2	076.22.1319.16872	F03
4	076.22.1319.23345	F12
6	076.22.1319.16701	F14
8	076.22.1319.17168	F16
10	076.22.1319.16521	F18
12	076.22.1358.24117	F19
14	076.22.1319.16369	F21
16	076.22.1319.16785	F23
18	076.22.1319.17034	F25
20	076.22.1319.16380	F27
22	076.22.1319.16370	F28G
24	076.22.1319.17150	L21
26	DEFLCAMB1014	
28	STRBRIBR1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

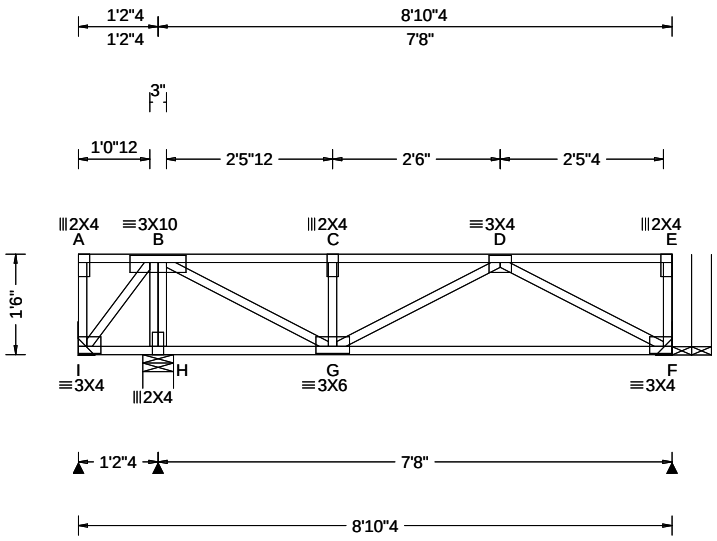
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 8

SEQN: 1416 / SY42 FROM:	Ply: 1 Qty: 36	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F02	Cust: R 9316 JRef:1XdX93160006 T6 / DrwNo: 076.22.1319.16346 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.018	C	999	480
VERT(CL): 0.034	C	999	360
HORZ(LL): 0.002	F	-	-
HORZ(TL): 0.004	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.299
Max BC CSI: 0.301
Max Web CSI: 0.162

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	28	/-43	/-	/-	/-	/-
H	525	/-	/-	/-	/-	/-
F	372	/-	/-	/-	/-	/-

I Brg Wid = - Min Req = -
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
F Brg Wid = - Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-485	C - D	0	-485

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	473	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - H	0	-499	D - F	0	-537
B - G	576	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

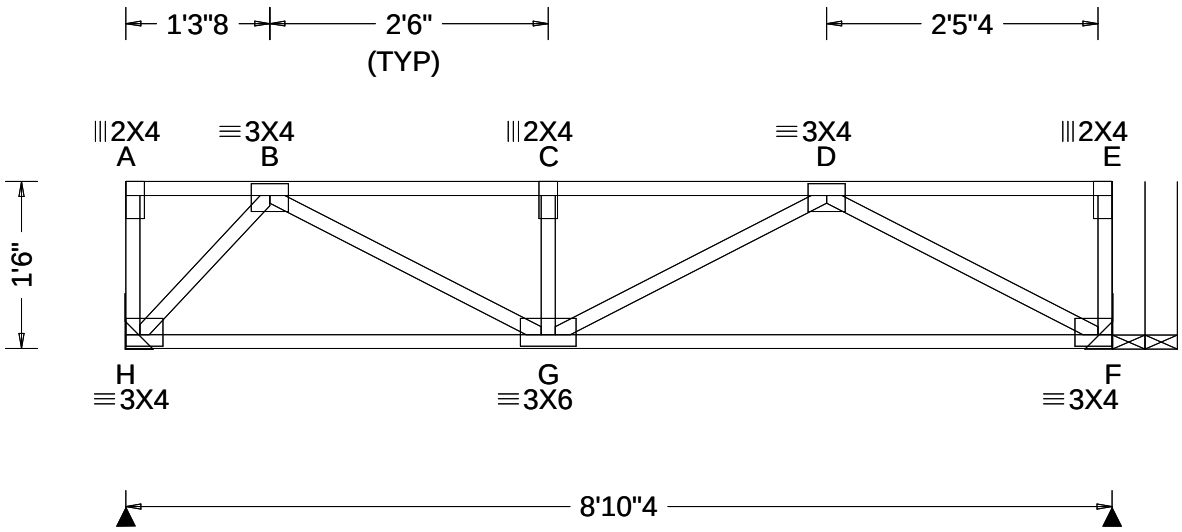
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11791 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F03	Cust: R 9316 JRef:1XdX93160006 T7 / DrwNo: 076.22.1319.16872 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.024	C	999	480
VERT(CL): 0.046	C	999	360
HORZ(LL): 0.004	B	-	-
HORZ(TL): 0.008	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.298
Max BC CSI: 0.324
Max Web CSI: 0.141

VIEW Ver: 21.02.00.1005.17

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	443	/-	/-	/-	/-	/-
F	443	/-	/-	/-	/-	/-

H Brg Wid = - Min Req = -
F Brg Wid = - Min Req = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-747	C - D	0	-747

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	606	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - B	0	-546	D - F	0	-687
B - G	426	0			

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

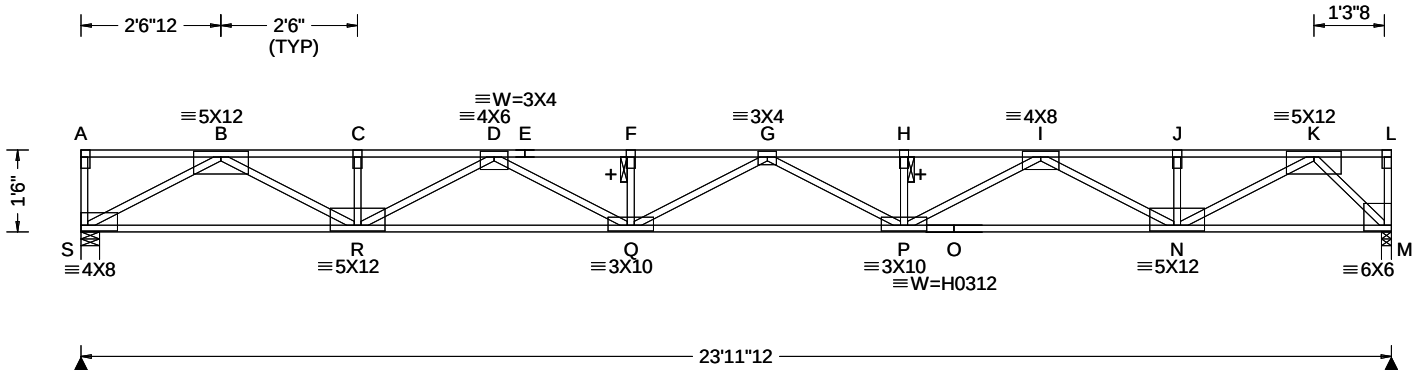
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11793 / SY42 FROM:	Ply: 1 Qty: 32	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F11	Cust: R 9316 JRef:1XdX93160006 T28 / DrwNo: 076.22.1319.17264 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.414	G	695	480
VERT(CL): 0.775	G	371	360
HORZ(LL): 0.057	M	-	-
HORZ(TL): 0.107	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.398
Max BC CSI: 0.672
Max Web CSI: 0.551

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
S	1199	/-	/-	/-	/-	/-
M	1199	/-	/-	/-	/-	/-

S Brg Wid = 4.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3522	G - H	0	-4917
C - D	0	-3522	H - I	0	-4917
D - E	0	-5123	I - J	0	-2895
E - F	0	-5123	J - K	0	-2895
F - G	0	-5123			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	2010	0	P - O	4106	0
R - Q	4523	0	O - N	4106	0
Q - P	5219	0	N - M	1183	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2281	P - I	925	0
B - R	1725	0	I - N	0	-1382
R - D	0	-1143	N - K	1954	0
D - Q	684	0	K - M	0	-1648

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

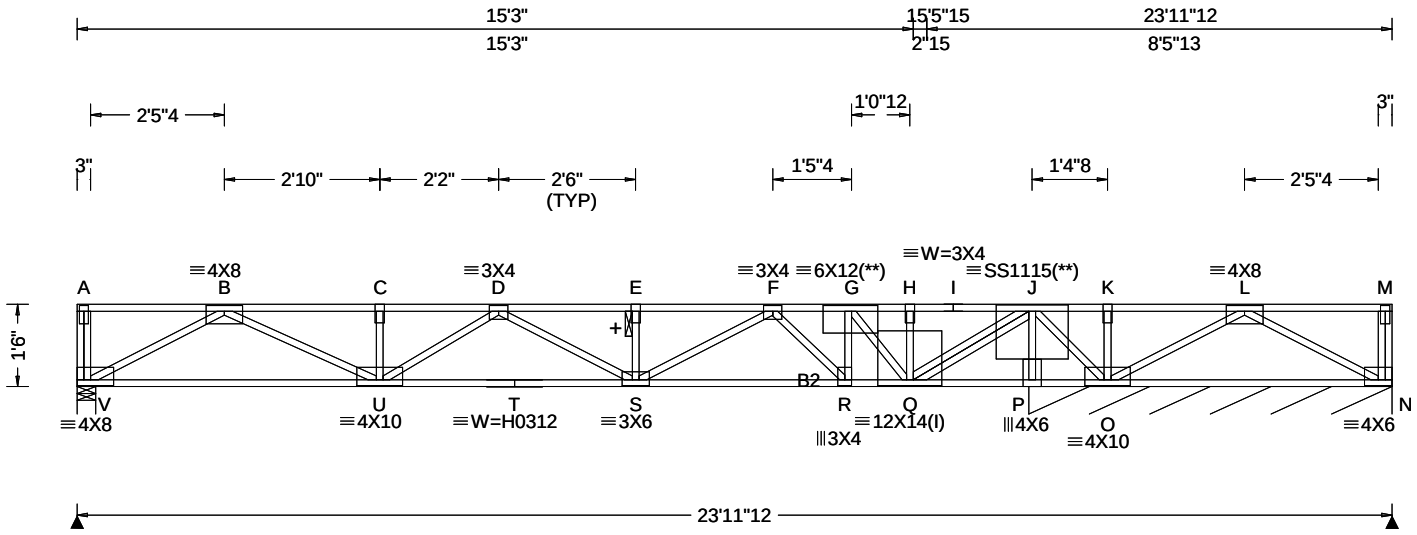
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11795 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F12	Cust: R 9316 JRef:1XdX93160006 T1 / DrwNo: 076.22.1319.23345 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.201	E	999	480
VERT(CL): 0.377	E	545	360
HORZ(LL): 0.029	B	-	-
HORZ(TL): 0.054	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.946
Max BC CSI: 0.960
Max Web CSI: 0.568

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	443	/-	/-	/-	/-	/-
N		/-304				

V Brg Wid = 4.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2615	G - H	0	-818
C - D	0	-2615	H - I	0	-818
D - E	0	-3202	I - J	0	-818
E - F	0	-3202	J - K	2031	0
F - G	0	-2426	K - L	2031	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1461	0	R - Q	2382	0
U - T	3059	0	Q - P	0	-2607
T - S	3059	0	P - O	0	-2607
S - R	2851	0	O - N	0	-784

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1680	G - Q	0	-2558
B - U	1283	0	Q - J	4025	0
U - D	0	-526	J - P	0	-2889
S - F	401	0	J - O	816	0
F - R	0	-615	O - L	0	-1423
R - G	488	0	L - N	897	0

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.98
BC: From 13 plf at 0.00 to 13 plf at 23.98
TC: 1500 lb Conc. Load at 14.06

Plating Notes
All plates are 2X4 except as noted.
(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

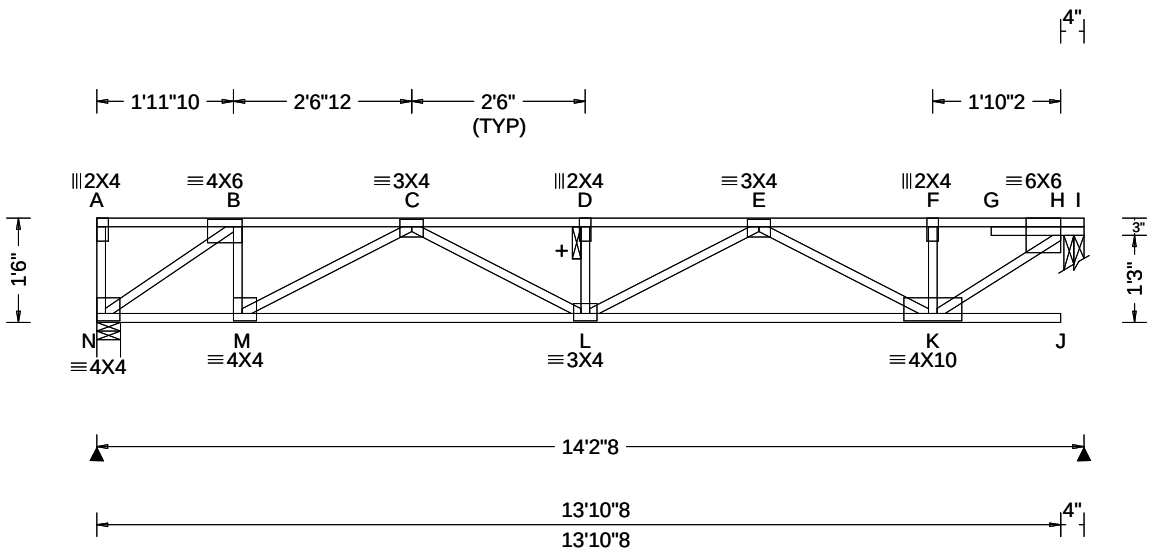
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11797 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F13	Cust: R 9316 JRef:1XdX93160006 T23 / DrwNo: 076.22.1319.16966 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.096	D	999	480
VERT(CL): 0.179	D	942	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.030	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.620
Max BC CSI: 0.537
Max Web CSI: 0.329

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	702	/-	/-		/-	/-	/-
H	714	/-	/-		/-	/-	/-

N Brg Wid = 4.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-943	E - F	0	-943
C - D	0	-1836	F - H	0	-942
D - E	0	-1836			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	905	0	L - K	1574	0
M - L	1582	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1104	E - K	0	-721
B - M	416	0	K - H	1166	0
M - C	0	-734			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

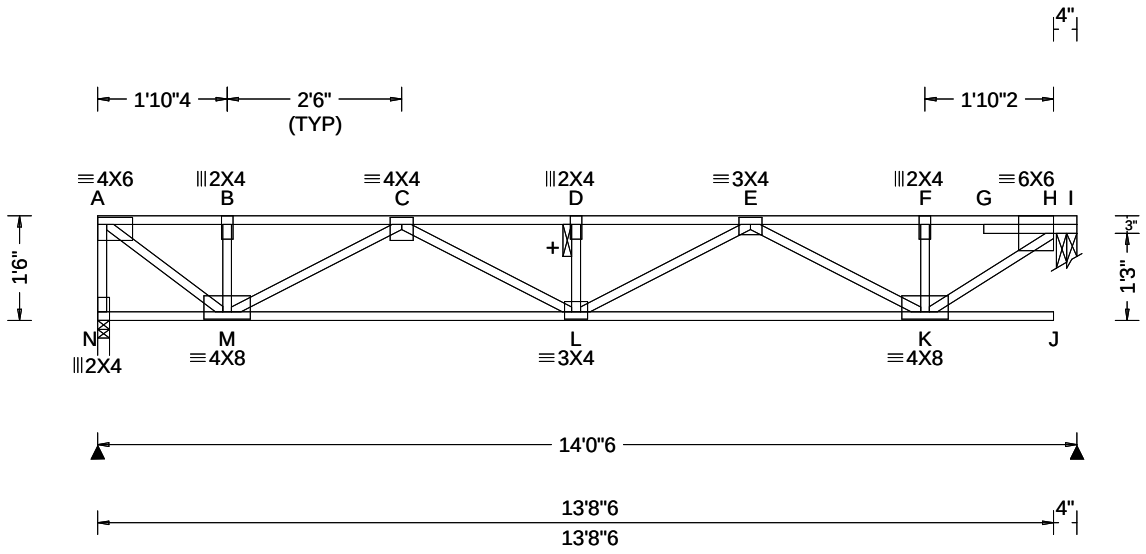
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11799 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F14	Cust: R 9316 JRef:1XdX93160006 T15 / DrwNo: 076.22.1319.16701 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.093	D	999	480
VERT(CL): 0.174	D	955	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.612
Max BC CSI: 0.524
Max Web CSI: 0.324

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	693	/-	/-		/-	/-	/-
H	706	/-	/-		/-	/-	/-

N Brg Wid = 2.0 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-849	D - E	0	-1791
B - C	0	-849	E - F	0	-929
C - D	0	-1791	F - H	0	-929

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1520	0	L - K	1546	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-690	E - K	0	-703
A - M	1057	0	K - H	1150	0
M - C	0	-766			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

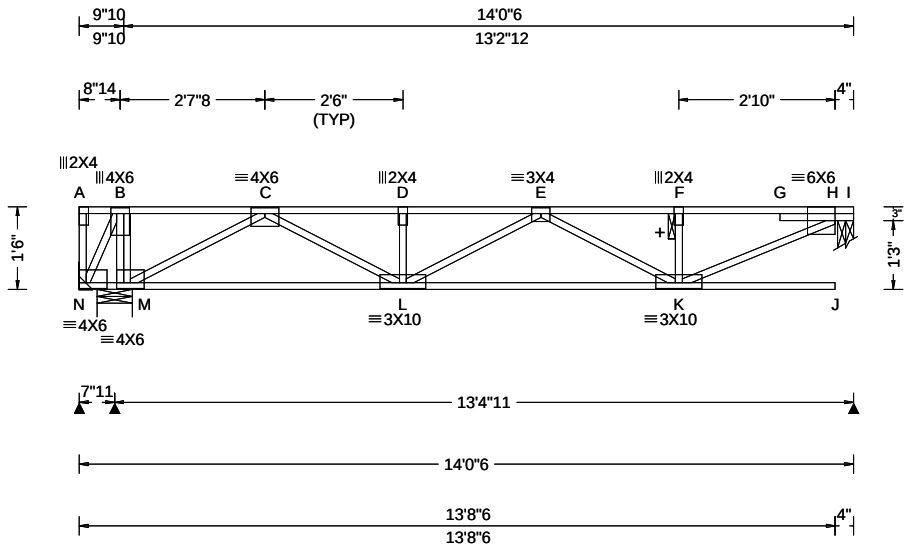
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 1418 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F15	Cust: R 9316 JRef:1XdX93160006 T26 / DrwNo: 076.22.1319.16798 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.200	J	780	480
VERT(CL): 0.320	J	487	360
HORZ(LL): 0.011	C	-	-
HORZ(TL): 0.020	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.961
Max BC CSI: 0.588
Max Web CSI: 0.339

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-708	/-	/-	/-	/-
N	1480	/-	/-	/-	/-	/-
H	618	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
N Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	400	0	E - F	0	-1087
C - D	0	-1207	F - H	0	-1088
D - E	0	-1207			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	600	0	L - K	1318	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	685	0	C - L	693	0
B - M	0	-840	K - H	1201	0
M - C	0	-1141			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -708# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

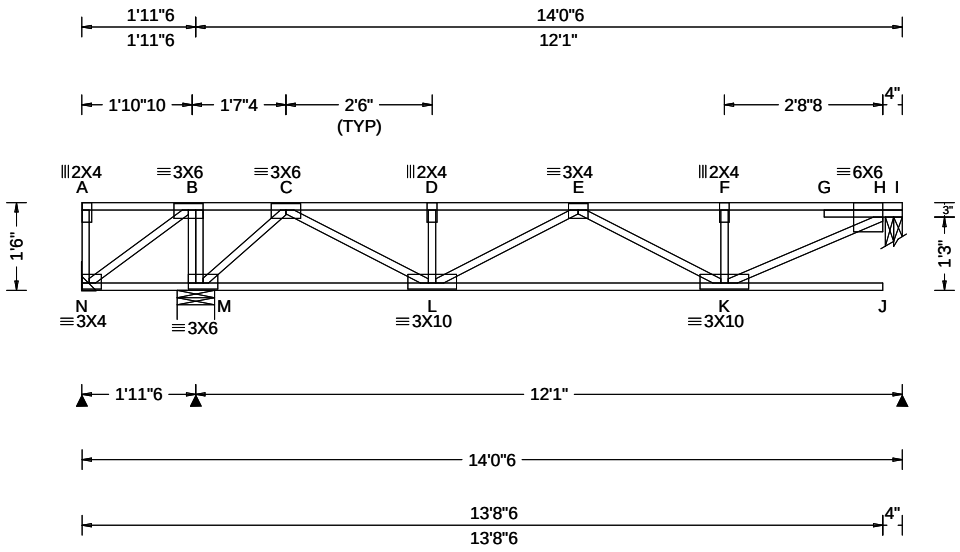
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11803 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F16	Cust: R 9316 JRef:1XdX93160006 T33 / DrwNo: 076.22.1319.17168 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.159	J	897	480
VERT(CL): 0.249	J	570	360
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.283

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+ / R-		/ Rh	/ Rw	/ U	/ RL
N	-	/-323	/-	/-	/-	/-
M	1131	/-	/-	/-	/-	/-
I	547	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	511	0	E - F	0	-901
C - D	0	-818	F - H	0	-903
D - E	0	-818			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-469	L - K	1034	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	580	0	C - L	816	0
B - M	0	-512	K - H	1004	0
M - C	0	-842			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

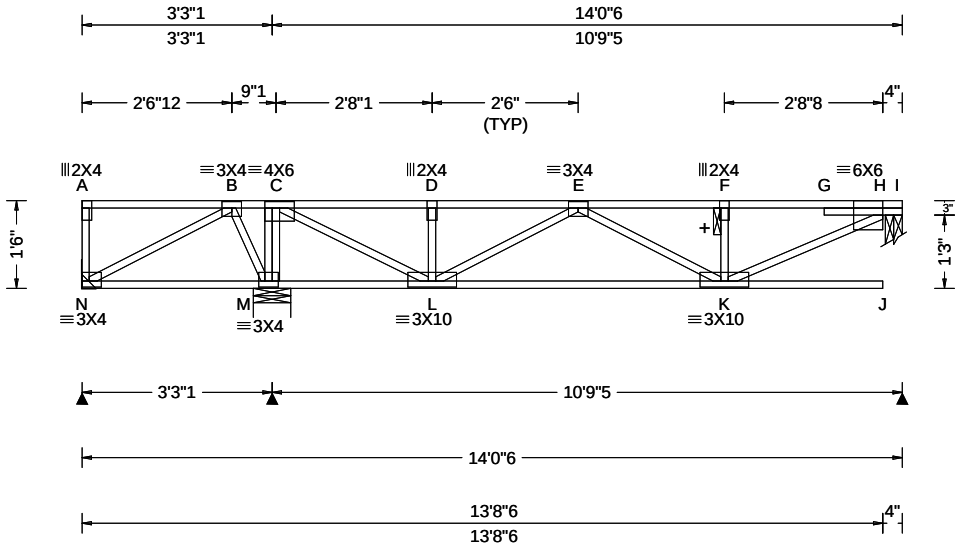
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11805 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F17	Cust: R 9316 JRef:1XdX93160006 T20 / DrwNo: 076.22.1319.17318 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	870	480
VERT(CL): 0.233	J	550	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.749
Max BC CSI: 0.437
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
N	57 /-122	/-	/-	/-	/-	
M	959 /-	/-	/-	/-	/-	
I	491 /-	/-	/-	/-	/-	

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	423	0	E - F	0	-784
C - D	0	-500	F - H	0	-785
D - E	0	-500			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	818	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	-627	K - H	874	0
C - L	963	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

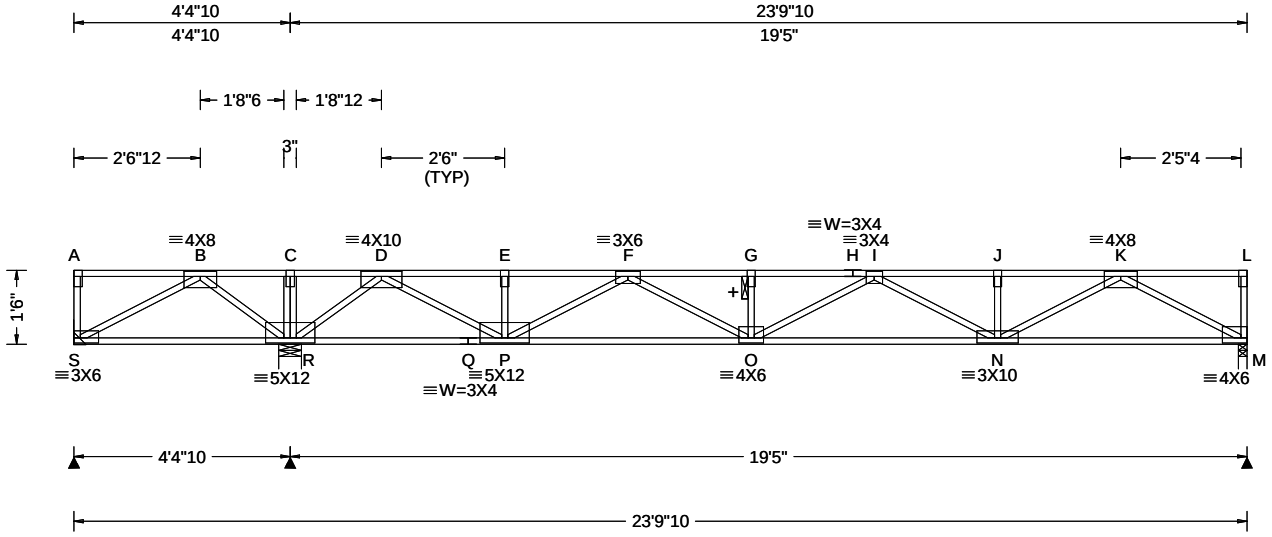
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11809 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18	Cust: R 9316 JRef:1XdX93160006 T16 / DrwNo: 076.22.1319.16521 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	G	999	480
VERT(CL): 0.371	G	628	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.796
Max Web CSI: 0.466

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	-	/-458	/-	/-	/-	/-
R	1886	/-	/-	/-	/-	/-
M	844	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1750	0	G - H	0	- 2537
C - D	1750	0	H - I	0	- 2537
D - E	0	- 1040	I - J	0	- 2220
E - F	0	- 1040	J - K	0	- 2220
F - G	0	- 2537			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	- 955	P - O	1987	0
R - Q	0	- 427	O - N	2580	0
Q - P	0	- 427	N - M	1352	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1084	0	F - O	631	0
B - R	0	- 1117	I - N	0	- 411
R - D	0	- 1648	N - K	991	0
D - P	1653	0	K - M	0	- 1535
P - F	0	- 1085			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -458# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

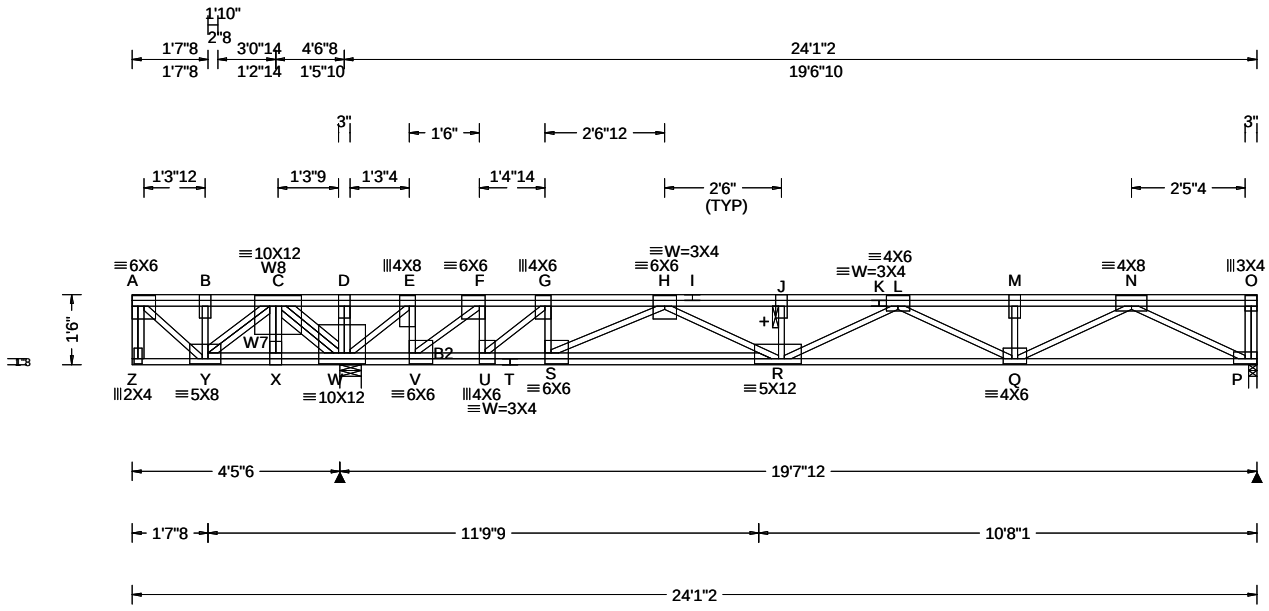
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11811 / SY42 FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18G	Cust: R 9316 JRef:1XdX93160006 T17 / DrwNo: 076.22.1319.17238 / NDW 03/17/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.124	Z	435	480
VERT(CL): 0.263	Z	204	360
HORZ(LL): -0.027	A	-	-
HORZ(TL): 0.058	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.885
Max BC CSI: 0.247
Max Web CSI: 0.249

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	8317	/-	/-	/-	/-	/-
P	962	/-165	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	420	0	H - I	1554	-1705
B - C	420	0	I - J	1554	-1705
C - D	4753	0	J - K	1551	-1711
D - E	4749	0	K - L	1551	-1711
E - F	4209	-367	L - M	534	-1347
F - G	3615	-827	M - N	534	-1347
G - H	3087	-1193			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	-1228	T - S	1169	-3130
X - W	0	-1219	S - R	1563	-2265
W - V	329	-4254	R - Q	1631	-993
V - U	793	-3663	Q - P	784	-222
U - T	1169	-3130			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	-548	G - S	539	0
Y - C	1053	0	S - H	0	-1139
C - W	0	-4787	H - R	869	0
W - E	0	-999	R - L	89	-626
E - V	636	0	L - Q	518	-321
V - F	0	-1035	Q - N	636	-353
F - U	652	0	N - P	250	-860
U - G	0	-919			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7,W8 4x2 DF-L 2400f-2.0E;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes

All plates are 3X6 except as noted.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

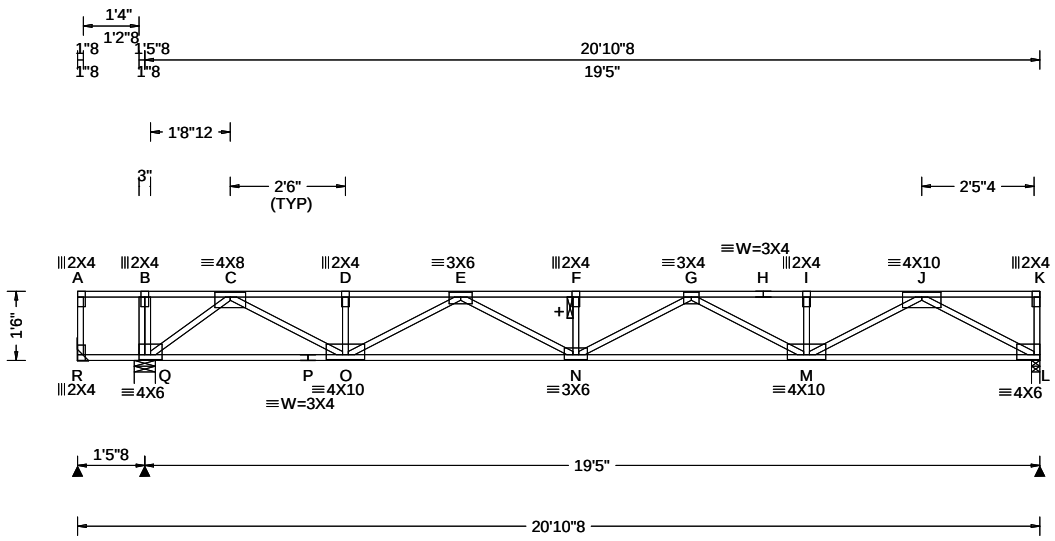
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 1414 SY42 FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19	Cust: R 9316 JRef:1XdX93160006 T34 DrwNo: 076.22.1358.24117 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.246	F	943	480
VERT(CL): 0.462	F	502	360
HORZ(LL): 0.038	L	-	-
HORZ(TL): 0.072	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.485
Max BC CSI: 0.960
Max Web CSI: 0.397

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	27	/-42	/-	/-	/-	/-
Q	1134	/-	/-	/-	/-	/-
L	962	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	- 2320	G - H	0	- 2651
D - E	0	- 2320	H - I	0	- 2651
E - F	0	- 3393	I - J	0	- 2651
F - G	0	- 3393			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1089	0	N - M	3224	0
P - O	1089	0	M - L	1570	0
O - N	3055	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - C	0	- 1383	G - M	0	- 654
C - O	1407	0	M - J	1233	0
O - E	0	- 839	J - L	0	- 1782
E - N	387	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

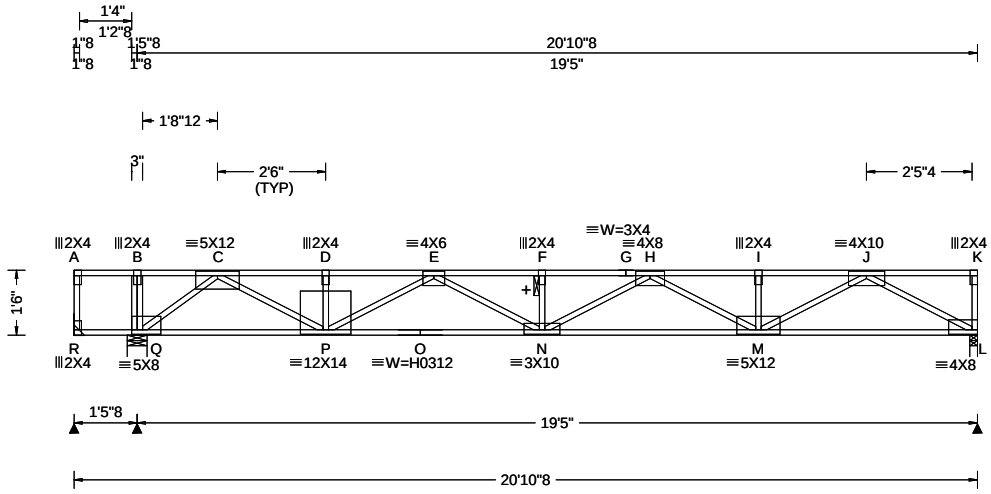
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 9802 / SY42 FROM:	Ply: 2 Qty: 4	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19G	Cust: R 9316 JRef:1XdX93160006 T8 / DrwNo: 076.22.1319.22564 / NDW 03/17/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.290	F	799	480
VERT(CL): 0.545	F	426	360
HORZ(LL): 0.041	C	-	-
HORZ(TL): 0.076	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.583
Max BC CSI: 0.585
Max Web CSI: 0.629

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	24	/-58	/-	/-	/-	/-
Q	3942	/-	/-	/-	/-	/-
L	1997	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-3789	G - H	0	-5138
D - E	0	-3789	H - I	0	-3219
E - F	0	-5138	I - J	0	-3219
F - G	0	-5138			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1835	0	N - M	4478	0
P - O	4877	0	M - L	1748	0
O - N	4877	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - Q	0	-465	F - N	0	-473
Q - C	0	-2340	N - H	753	0
C - P	2229	0	H - M	0	-1437
D - P	0	-467	M - J	1679	0
P - E	0	-1242	J - L	0	-1984

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
Webs: 4x2 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 20.88
BC: From 13 plf at 0.00 to 13 plf at 20.88
TC: 443 lb Conc. Load at 0.94
TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27 7.60, 8.94,10.27,11.60,12.94

Deflection
Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

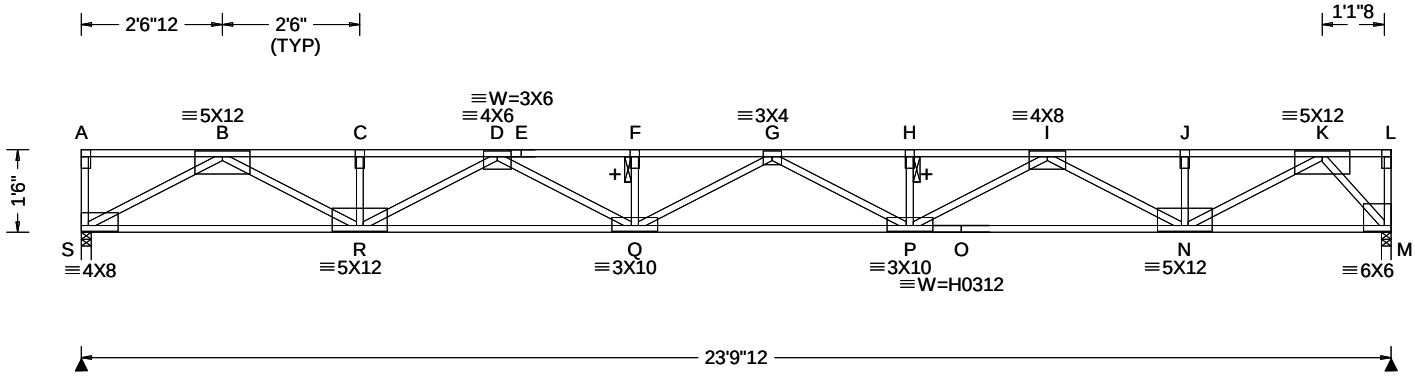
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11813 / SY42 FROM:	Ply: 1 Qty: 32	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F21	Cust: R 9316 JRef:1XdX93160006 T19 / DrwNo: 076.22.1319.16369 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.419 G	682	480
VERT(CL):	0.785 G	364	360
HORZ(LL):	0.056 M	-	-
HORZ(TL):	0.104 M	-	-

Creep Factor: 2.0
Max TC CSI: 0.442
Max BC CSI: 0.664
Max Web CSI: 0.556

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
S	1191	/-	/-	/-	/-	/-
M	1191	/-	/-	/-	/-	/-

S Brg Wid = 2.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3491	G - H	0	-4826
C - D	0	-3491	H - I	0	-4826
D - E	0	-5062	I - J	0	-2773
E - F	0	-5062	J - K	0	-2773
F - G	0	-5062			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	1995	0	P - O	4000	0
R - Q	4479	0	O - N	4000	0
Q - P	5145	0	N - M	1047	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2264	P - I	942	0
B - R	1707	0	I - N	0	-1401
R - D	0	-1127	N - K	1969	0
D - Q	665	0	K - M	0	-1557

Lumber
Top chord: 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

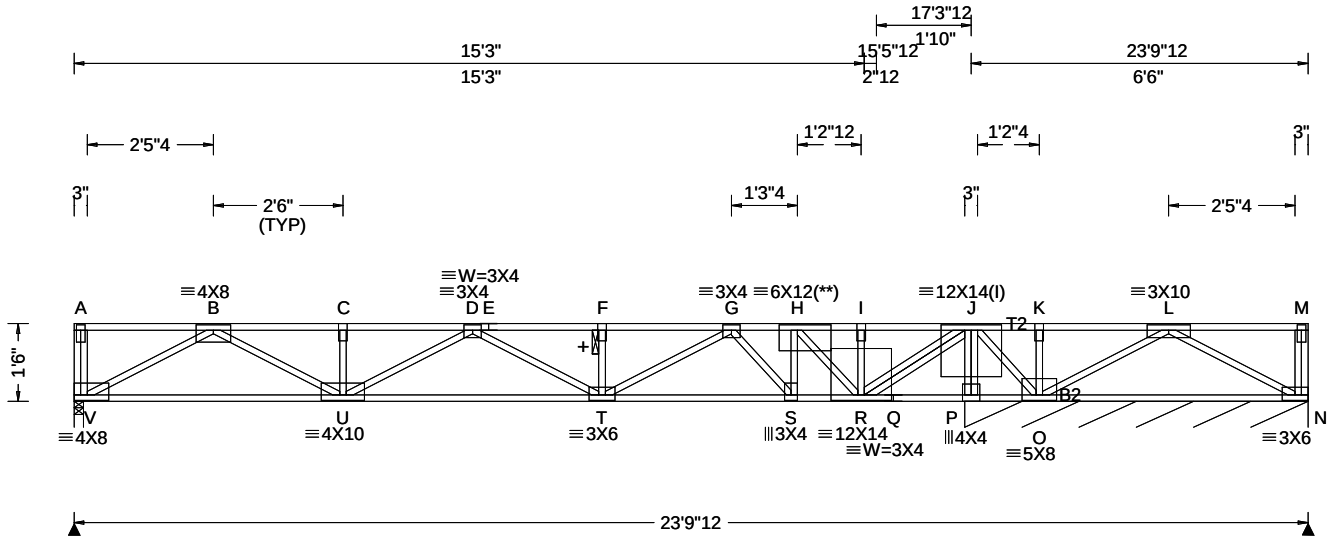
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11815 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F22	Cust: R 9316 JRef:1XdX93160006 T2 / DrwNo: 076.22.1319.17452 / NDW 03/17/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.179 F 999 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.335 F 613 360
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.026 B - -
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.049 B - -
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.504
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.472
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: No	Max Web CSI: 0.548
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	
	I: NA GCpi: NA	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: NA		

Lumber

Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)

TC: From	87 plf at	0.00 to	87 plf at	23.81
BC: From	13 plf at	0.00 to	13 plf at	23.81

TC: 1500 lb Conc. Load at 13.90

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	441	/-	/-	/-	/-	/-
N		/-246				

V Brg Wid = 2.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2565	G - H	0	-2521
C - D	0	-2565	H - I	0	-698
D - E	0	-3256	I - J	0	-698
E - F	0	-3256	J - K	1825	0
F - G	0	-3256	K - L	1825	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1507	0	R - Q	0	-2561
U - T	3113	0	Q - P	0	-2561
T - S	2904	0	P - O	0	-2561
S - R	2477	0	O - N	0	-681

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1714	H - R	0	-2670
B - U	1208	0	R - J	3882	0
U - D	0	-625	J - P	0	-3088
T - G	402	0	J - O	1065	0
G - S	0	-598	O - L	0	-1307
S - H	486	0	L - N	779	0

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

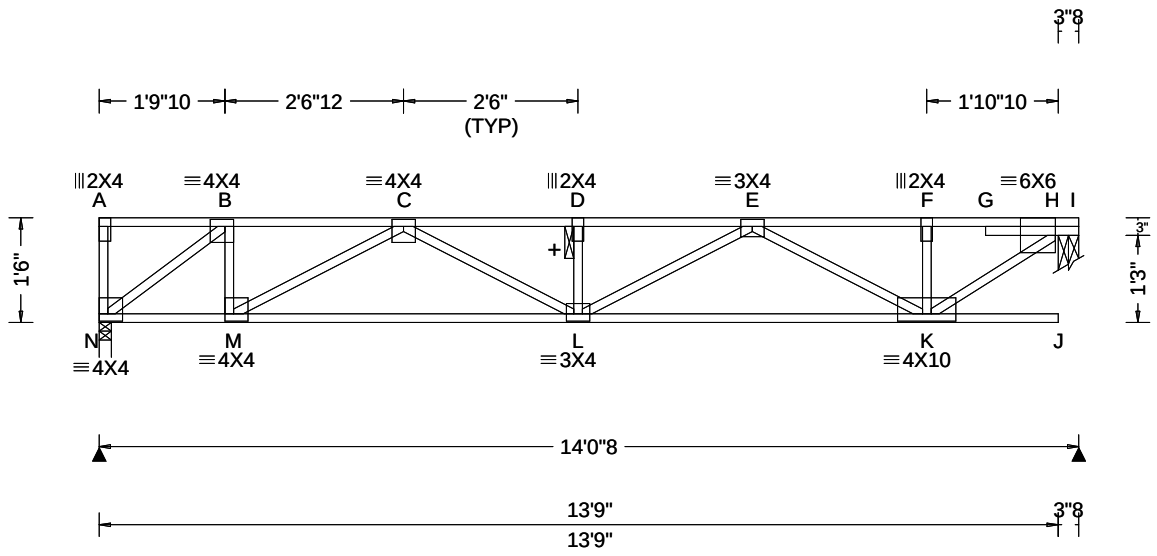
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11817 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F23	Cust: R 9316 JRef:1XdX93160006 T25 / DrwNo: 076.22.1319.16785 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.092	D	999	480
VERT(CL): 0.172	D	970	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.029	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.613
Max BC CSI: 0.522
Max Web CSI: 0.325

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	694	/-	/-	/-	/-	/-
H	707	/-	/-	/-	/-	/-

N Brg Wid = 2.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-869	E - F	0	-931
C - D	0	-1793	F - H	0	-930
D - E	0	-1793			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	831	0	L - K	1548	0
M - L	1525	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1045	E - K	0	-704
B - M	425	0	K - H	1152	0
M - C	0	-752			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

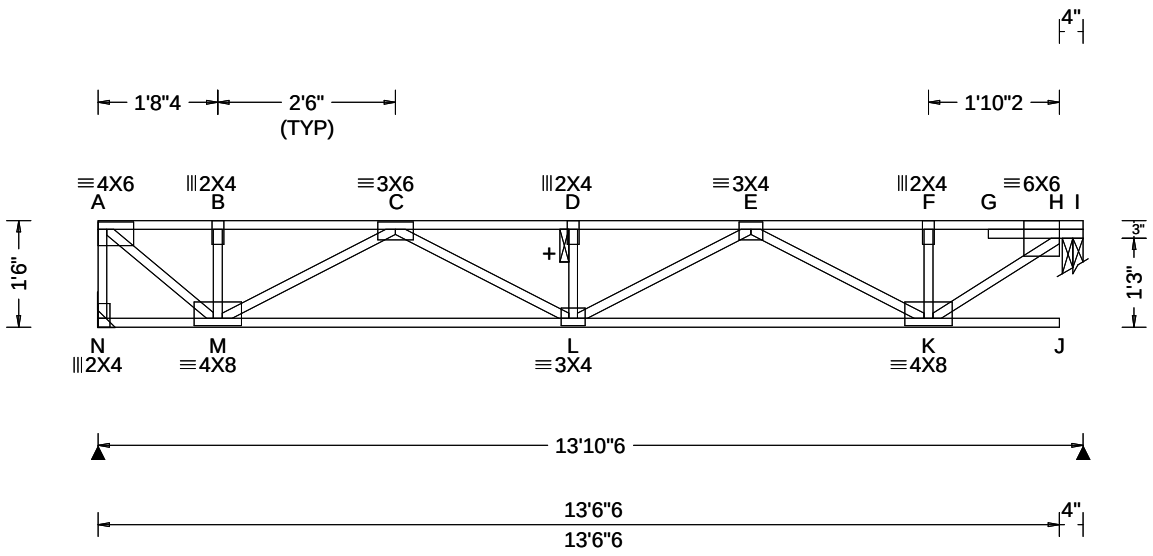
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11821 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F24	Cust: R 9316 JRef:1XdX93160006 T3 / DrwNo: 076.22.1319.16412 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.090	D	999	480
VERT(CL): 0.167	D	982	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.604
Max BC CSI: 0.513
Max Web CSI: 0.320

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	685	/-	/-	/-	/-	/-
H	697	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-776	D - E	0	-1749
B - C	0	-776	E - F	0	-917
C - D	0	-1749	F - H	0	-916

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1463	0	L - K	1518	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-684	E - K	0	-687
A - M	1001	0	K - H	1134	0
M - C	0	-784			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

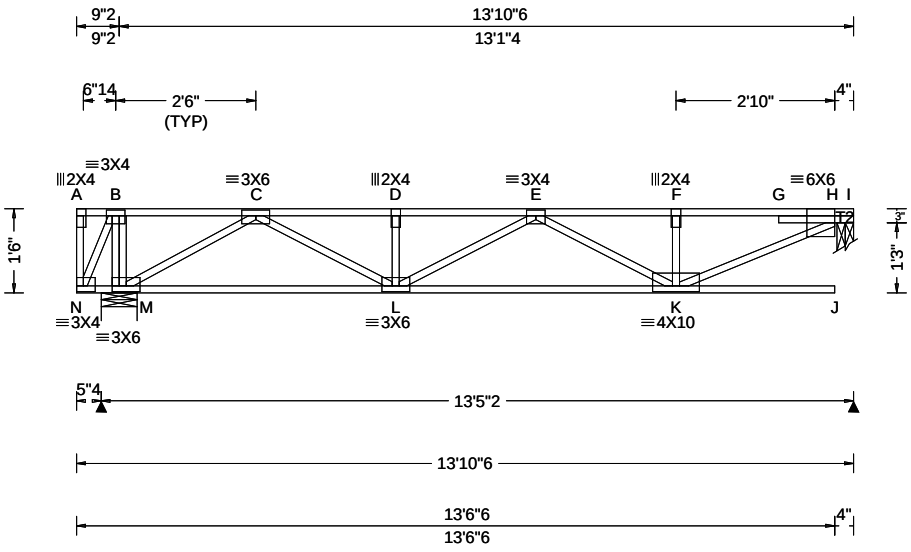
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11823 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F25	Cust: R 9316 JRef:1XdX93160006 T11 / DrwNo: 076.22.1319.17034 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	J	784	480
VERT(CL): 0.316	J	488	360
HORZ(LL): 0.013	A	-	-
HORZ(TL): 0.024	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.609
Max BC CSI: 0.630
Max Web CSI: 0.367

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
M	729	/-	/-	/-	/-	/-
H	659	/-	/-	/-	/-	/-

M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-1447	E - F	0	-1177
D - E	0	-1447	F - H	0	-1178

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	912	0	L - K	1482	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	-1015	K - H	1301	0
C - L	614	0			

Lumber

Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

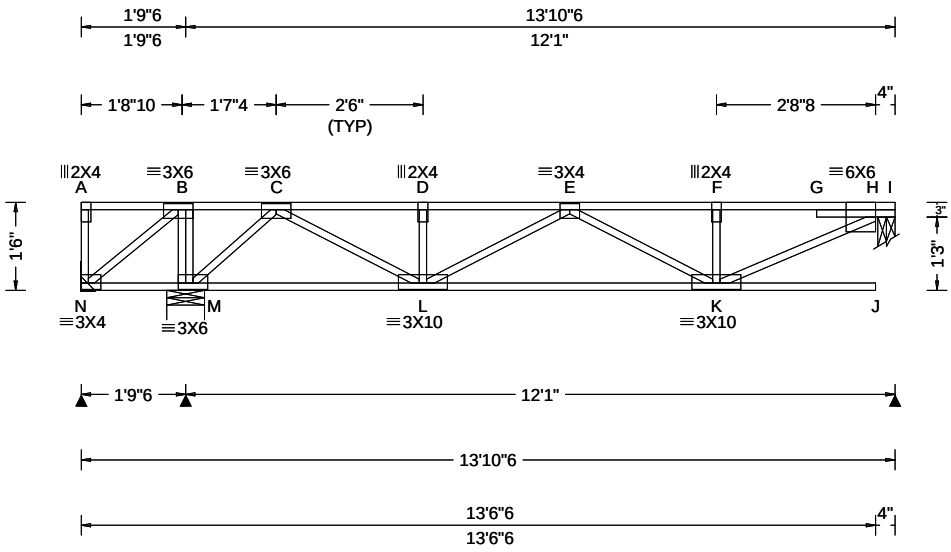
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11825 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F26	Cust: R 9316 JRef:1XdX93160006 T5 / DrwNo: 076.22.1319.16695 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.158	J	897	480
VERT(CL): 0.249	J	570	360
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.284

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-358	/-	/-	/-	/-
M	1154	/-	/-	/-	/-	/-
H	547	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	510	0	E - F	0	-902
C - D	0	-819	F - H	0	-903
D - E	0	-819			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-465	L - K	1035	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	596	0	C - L	815	0
B - M	0	-533	K - H	1005	0
M - C	0	-843			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

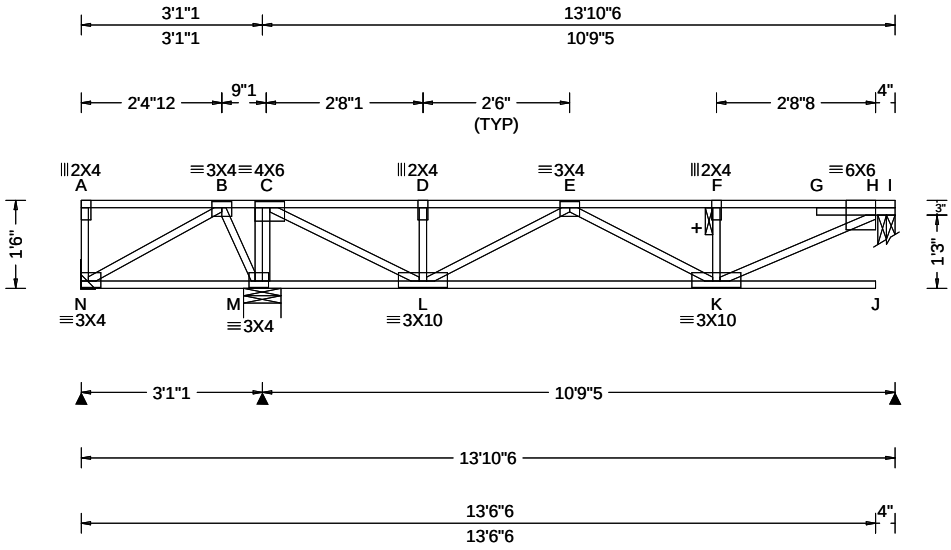
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11827 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F27	Cust: R 9316 JRef:1XdX93160006 T9 / DrwNo: 076.22.1319.16380 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	869	480
VERT(CL): 0.233	J	549	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.748
Max BC CSI: 0.436
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	44	/-139	/-	/-	/-	/-
M	963	/-	/-	/-	/-	/-
H	491	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	427	0	E - F	0	- 782
C - D	0	- 495	F - H	0	- 784
D - E	0	- 495			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	815	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	- 633	K - H	872	0
C - L	964	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

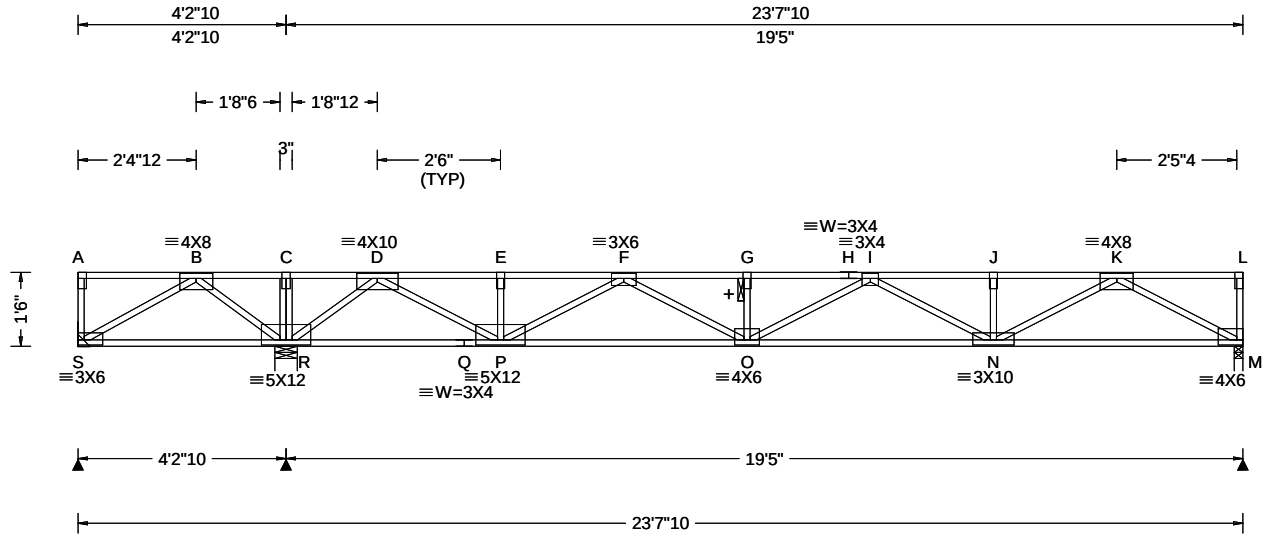
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11829 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F28	Cust: R 9316 JRef:1XdX93160006 T10 / DrwNo: 076.22.1319.16644 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.196	G	999	480
VERT(CL): 0.369	G	630	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.795
Max Web CSI: 0.467

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	-	/-490	/-	/-	/-	/-
R	1906	/-	/-	/-	/-	/-
M	843	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1763	0	G - H	0	- 2527
C - D	1763	0	H - I	0	- 2527
D - E	0	- 1026	I - J	0	- 2216
E - F	0	- 1026	J - K	0	- 2216
F - G	0	- 2527			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	- 944	P - O	1976	0
R - Q	0	- 440	O - N	2573	0
Q - P	0	- 440	N - M	1350	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1088	0	F - O	633	0
B - R	0	- 1142	I - N	0	- 408
R - D	0	- 1649	N - K	988	0
D - P	1656	0	K - M	0	- 1532
P - F	0	- 1087			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -490# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

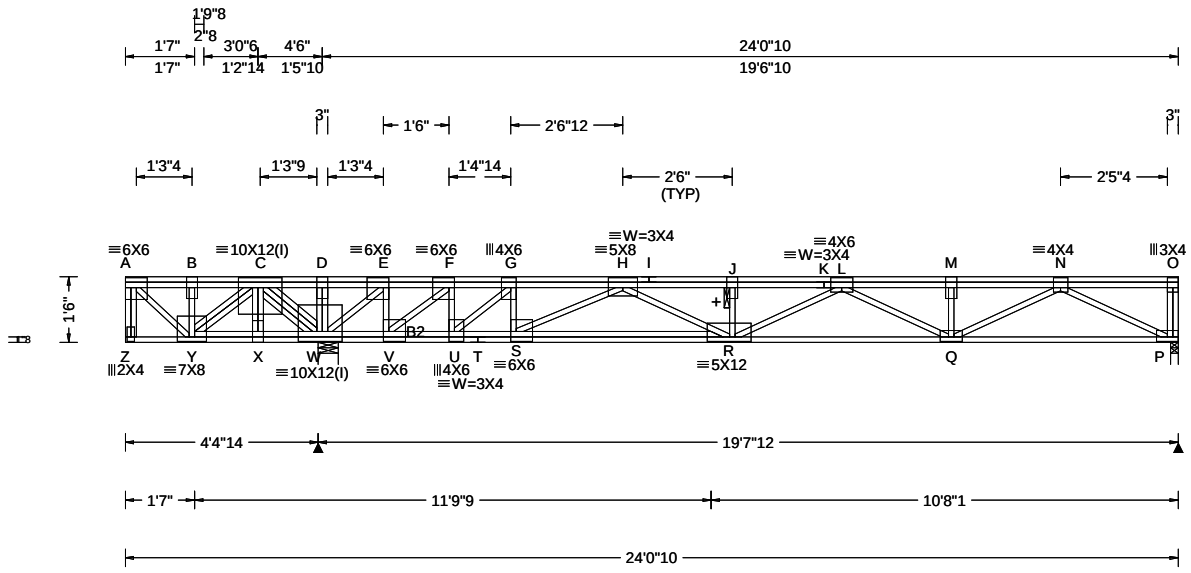
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11832 / SY42 FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F28G	Cust: R 9316 JRef:1XdX93160006 T12 / DrwNo: 076.22.1319.16370 / NDW 03/17/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.120	A	443	480
VERT(CL): 0.268	Z	198	360
HORZ(LL): -0.025	A	-	-
HORZ(TL): 0.057	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.433
Max BC CSI: 0.260
Max Web CSI: 0.271

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	8750	/-	/-	/-	/-	/-
P	618	/-243	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	597	0	H - I	1855	- 383
B - C	597	0	I - J	1855	- 383
C - D	5342	0	J - K	1853	- 389
D - E	5337	0	K - L	1853	- 389
E - F	4767	0	L - M	685	- 689
F - G	4126	0	M - N	685	- 689
G - H	3551	0			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	- 1645	T - S	0	- 3597
X - W	0	- 1635	S - R	0	- 2646
W - V	0	- 4815	R - Q	647	- 1215
V - U	0	- 4178	Q - P	456	- 296
U - T	0	- 3597			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	- 789	G - S	577	0
Y - C	1366	0	S - H	0	- 1230
C - W	0	- 5021	H - R	961	0
W - E	0	- 1030	R - L	0	- 716
E - V	677	0	L - Q	599	0
V - F	0	- 1093	Q - N	264	- 439
F - U	694	0	N - P	330	- 495
U - G	0	- 980			

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.05
BC: From 13 plf at 0.00 to 13 plf at 24.05
TC: 1129 lb Conc. Load at 0.12
TC: 5500 lb Conc. Load at 3.03

Plating Notes

All plates are 3X6 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

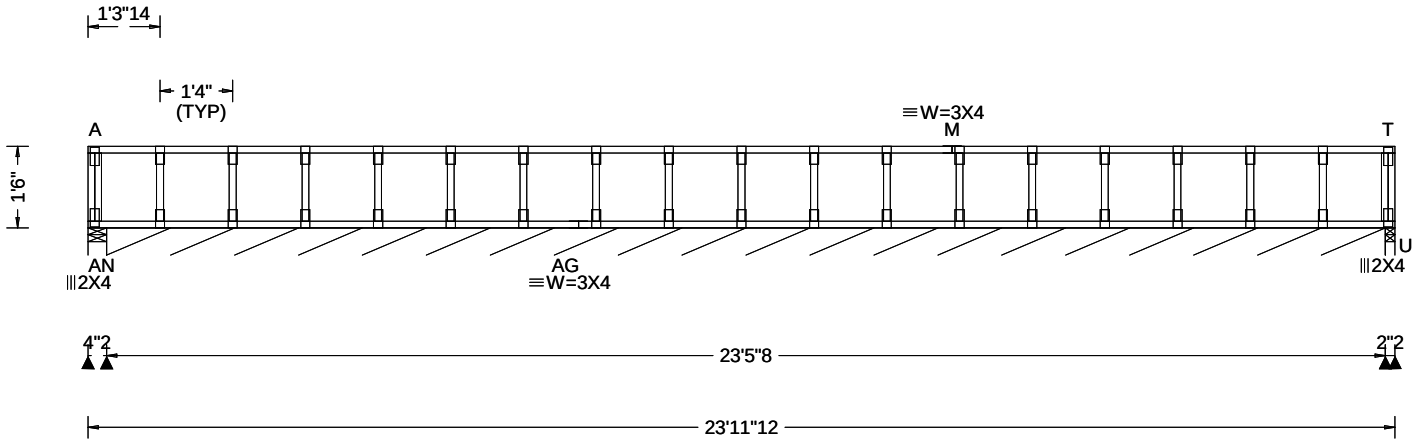
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11834 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L11	Cust: R 9316 JRef:1XdX93160006 T29 / DrwNo: 076.22.1319.17003 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	T	999	480
VERT(CL): 0.001	T	999	360
HORZ(LL): -0.003	B	-	-
HORZ(TL): 0.005	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.060
Max BC CSI: 0.013
Max Web CSI: 0.018

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AN	68	/-	/-	/-	/-	/-
AN*	97	/-	/-	/-	/-	/-
U	64	/-	/-	/-	/-	/-

AN Brg Wid = 4.1 Min Req = 1.5 (Truss)
AN Brg Wid = 281 Min Req = -
U Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AN, AN, & U are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

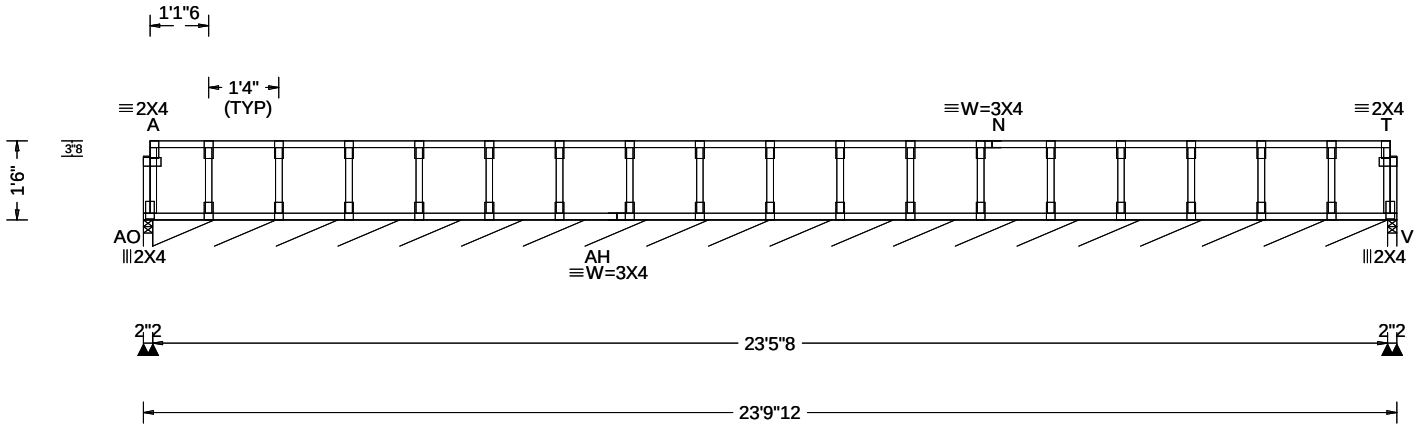
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11836 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L21	Cust: R 9316 JRef:1XdX93160006 T30 / DrwNo: 076.22.1319.17150 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	T	999	480
VERT(CL): 0.000	T	999	360
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.057
Max BC CSI: 0.009
Max Web CSI: 0.018

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AO	48	/-	/-	/-	/-	/-
AO	*97	/-	/-	/-	/-	/-
V	48	/-	/-	/-	/-	/-

AO Brg Wid = 2.1 Min Req = 1.5 (Truss)
AO Brg Wid = 281 Min Req = -
V Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AO, AO, & V are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

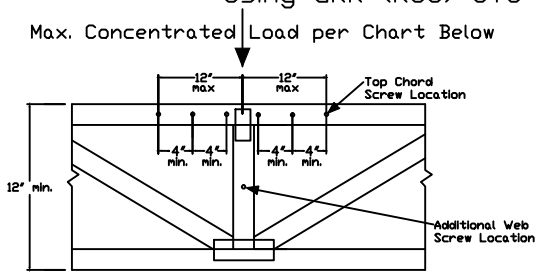
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

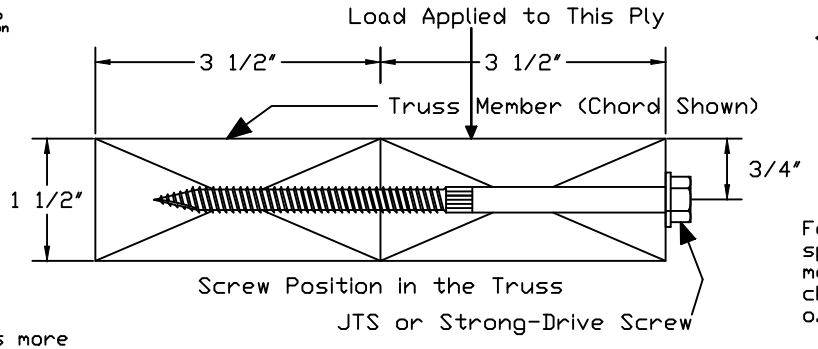
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

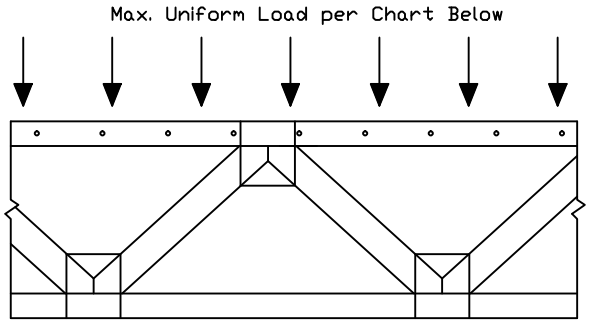
System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.



Refer to Alpine sealed drawing for individual truss design.





Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200

ALPINE® ITW COMPANY
3045

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

TC LL		PSF
TC DL		PSF
BC DL		PSF
BC LL		PSF
TOT. LD.		PSF
DUR. FAC.	1.00	
SPACING		

REF	SY42 Connection
DATE	01/19/2018
DRWG	CNSY42PL0118

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

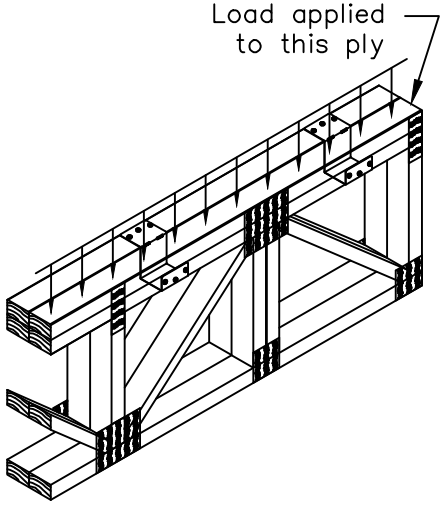
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL

FOR DOWNWARD LOADS ONLY

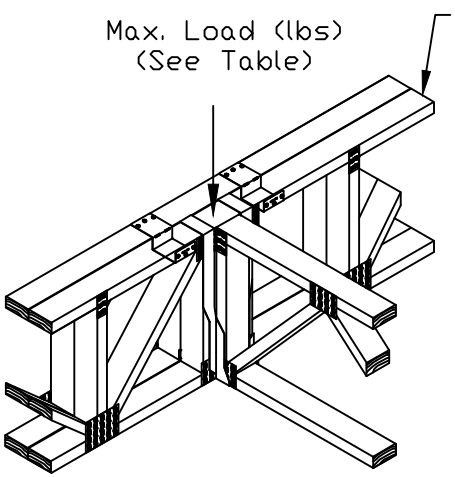
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application



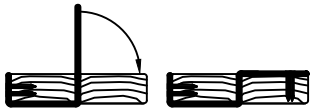
Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

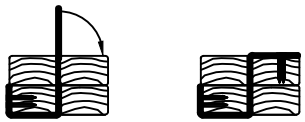
Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.

2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

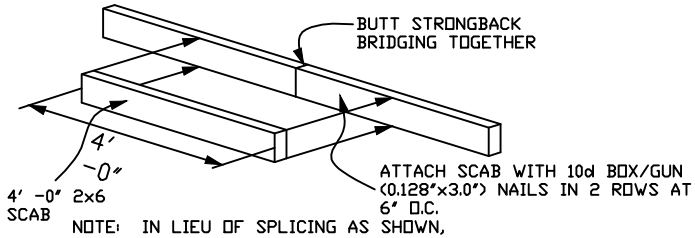
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

ALPINE® ITW COMPANY
[illegible] Earth City Expressway
[illegible] 63045

DUR. FAC. ALL

REF SY42 Connection
DATE 10/01/14
DRWG LSCSYX2A1014

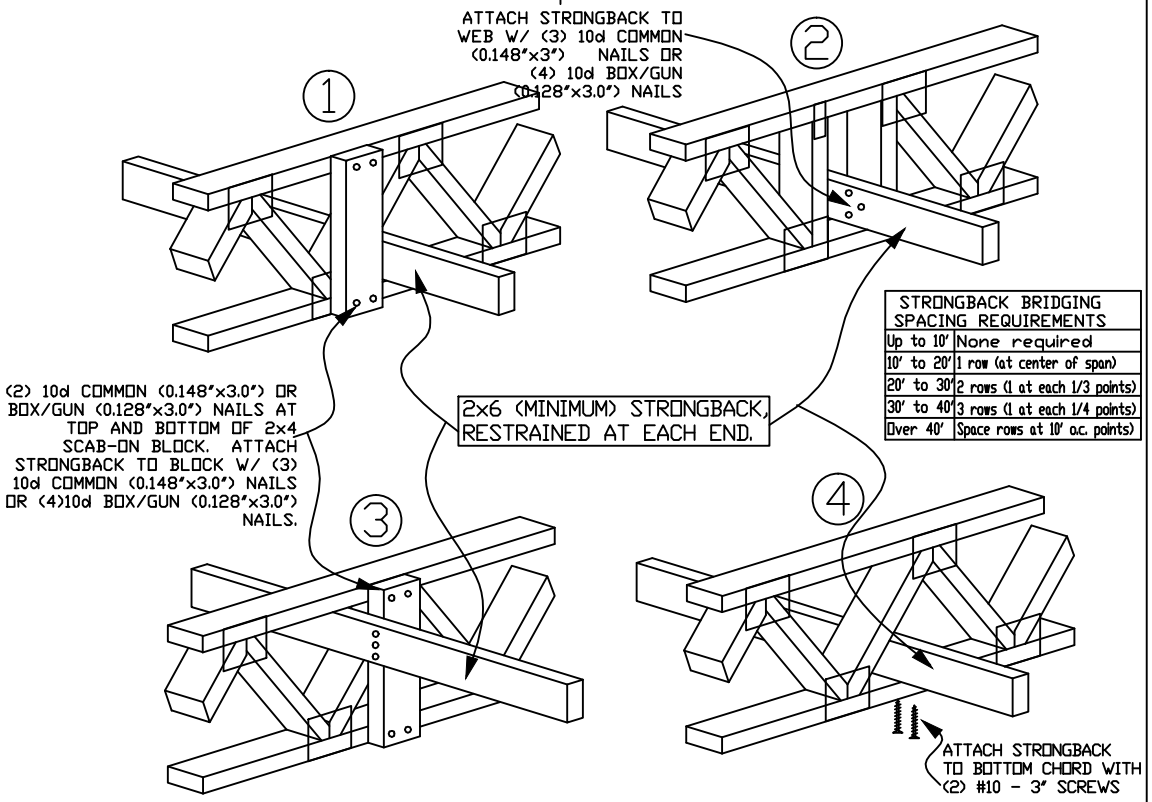
STRONGBACK BRIDGING RECOMMENDATIONS



NOTE: IN LIEU OF SPLICING AS SHOWN, LAP STRONGBACK BRIDGING MEMBERS FOR AT LEAST ONE TRUSS SPACING

STRONGBACK BRIDGING SPLICE DETAIL

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING SPACING REQUIREMENTS	
Up to 10'	None required
10' to 20'	1 row (at center of span)
20' to 30'	2 rows (1 at each 1/3 points)
30' to 40'	3 rows (1 at each 1/4 points)
Over 40'	Space rows at 10' o.c. points)

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

- All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

ALPINE® ITW COMPANY
Earth City Expressway
63045

*****WARNING*** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
*****IMPORTANT*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

TC LL	PSF	REF STRONGBACK
TC DL	PSF	DATE 10/01/14
BC DL	PSF	DRWG STRBRIBR1014
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.	1.00	
SPACING		

MiTek 20/20 7.17

Building 8

B D C

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 10, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Foundation Rebar Shop Drawings	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Group 8 Roof Layout

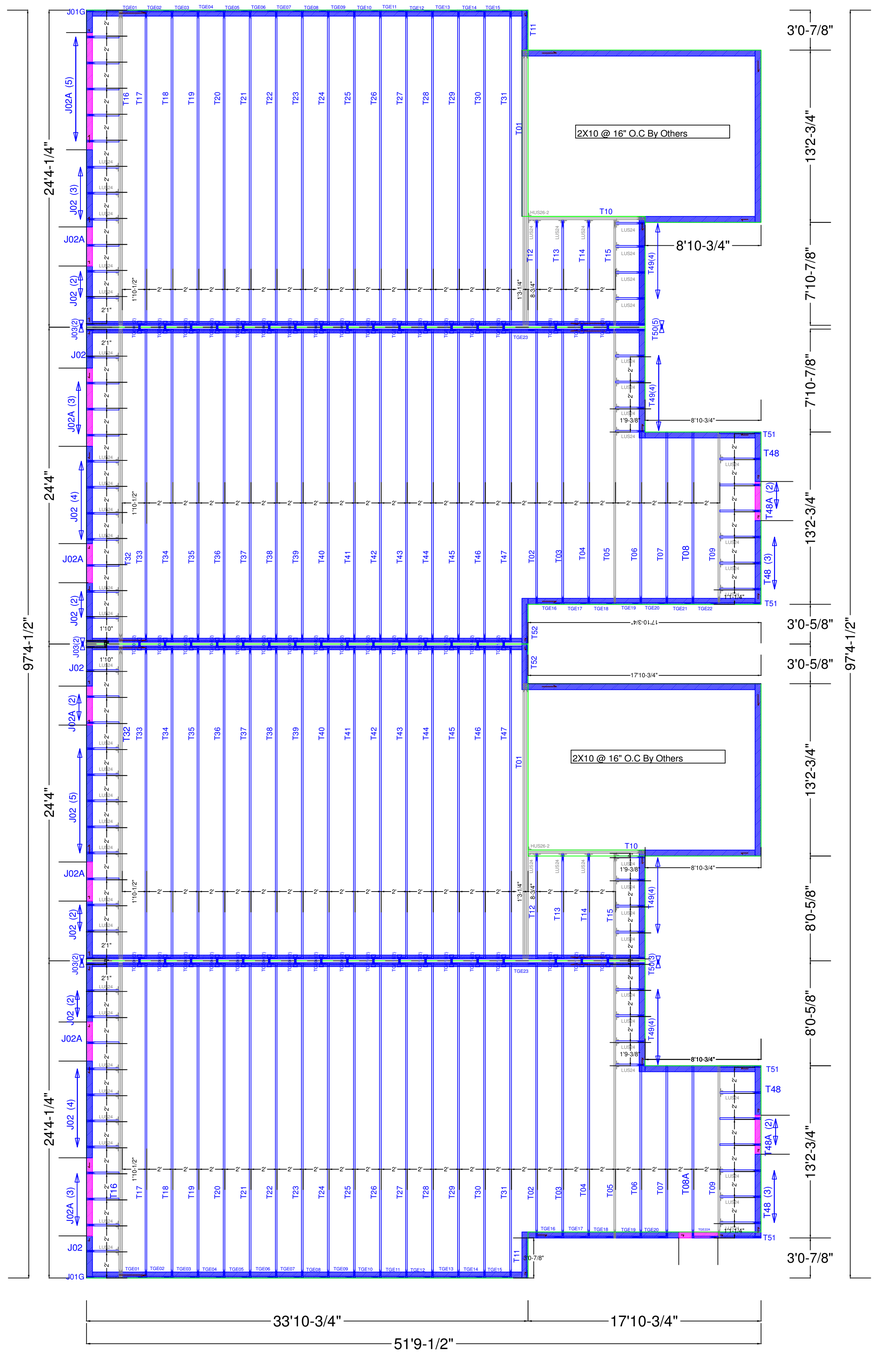
Total Truss Quantity = 349.

Total Plan Area with OHs = 4539 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
=	HUS26-2	2	Simpson
=	LUS24	78	Simpson

BEARING WALL & BEAM HEIGHTS
- 19'8"
- 19'9-3/4"



SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS.

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED, REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/10/2022 BY: CB

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 5/23/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

Job Name: McCambridge Brothers Construction

Designer: Juan R Quiroz

Reference #: JB-220688

Date: 4/29/2022

mill Creek
3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-6108

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

ROOF TRUSS LAYOUT (NTS)

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

Building 8

Bruce Alan Feldmann
Engineer
MO# E-023204

ALPINE AN ITW COMPANY

04/29/2022

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/10/2022 *BY:* CB

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

REVIEWED ☑ DATE RECIEVED:
REVIEWED AS NOTED ☐ DATE REVIEWED: 5/23/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

Site Information:	**Page 1:**
Customer: Mill Creek Truss	*Job Number:* JB-220688
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1Xf493160006
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 109 *Building Type:* Closed	*Design Loading (psf):* 60.00

This package contains general notes pages, 82 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	119.22.1313.47030	J01G	2	119.22.1313.48590	J02
3	119.22.1313.51260	J03	4	119.22.1313.52920	T01
5	119.22.1313.54597	T02	6	119.22.1313.56303	T03
7	119.22.1313.58157	T04	8	119.22.1313.59860	T05
9	119.22.1314.01430	T06	10	119.22.1314.02903	T07
11	119.22.1314.04320	T08	12	119.22.1314.08717	T10
13	119.22.1314.10050	T11	14	119.22.1314.11437	T12
15	119.22.1314.12840	T13	16	119.22.1314.14193	T14
17	119.22.1314.15803	T15	18	119.22.1314.19233	T17
19	119.22.1314.20977	T18	20	119.22.1314.22733	T19
21	119.22.1314.24487	T20	22	119.22.1314.26127	T21
23	119.22.1314.27763	T22	24	119.22.1314.29380	T23
25	119.22.1314.31003	T24	26	119.22.1314.32617	T25
27	119.22.1314.37510	T26	28	119.22.1314.39170	T27
29	119.22.1314.40810	T28	30	119.22.1314.42410	T29
31	119.22.1314.44043	T30	32	119.22.1314.45777	T31
33	119.22.1314.49357	T33	34	119.22.1314.50930	T34
35	119.22.1314.52577	T35	36	119.22.1314.56073	T36
37	119.22.1314.57703	T37	38	119.22.1314.59340	T38
39	119.22.1315.01013	T39	40	119.22.1315.02670	T40
41	119.22.1315.04263	T41	42	119.22.1315.05910	T42
43	119.22.1315.07633	T43	44	119.22.1315.09613	T44
45	119.22.1315.11443	T45	46	119.22.1315.13107	T46
47	119.22.1315.14703	T47	48	119.22.1315.16207	T48
49	119.22.1315.18983	T49	50	119.22.1315.20490	T50

Bruce Alan Feldmann
Engineer
MO# E-023204

04/29/2022

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

Site Information:	Page 2:
Customer: Mill Creek Truss	*Job Number:* JB-220688
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	119.22.1315.21903	T51
53	119.22.1303.39035	TGE01
55	119.22.1303.39008	TGE03
57	119.22.1303.38288	TGE05
59	119.22.1303.38498	TGE07
61	119.22.1303.38548	TGE09
63	119.22.1303.38831	TGE11
65	119.22.1303.38382	TGE13
67	119.22.1303.38790	TGE15
69	119.22.1303.38031	TGE17
71	119.22.1315.24817	TGE19
73	119.22.1315.27633	TGE21
75	119.22.1303.38644	TGE23
77	119.22.1314.47673	T32
79	119.22.1313.49987	J02A
81	119.22.1314.05753	T08A
83	A11530ENC160118	
85	DEFLCAMB1014	
87	GBLLETIN0118	

Item	Drawing Number	Truss
52	119.22.1315.23363	T52
54	119.22.1303.38673	TGE02
56	119.22.1303.38970	TGE04
58	119.22.1303.37957	TGE06
60	119.22.1303.38480	TGE08
62	119.22.1303.38610	TGE10
64	119.22.1303.38286	TGE12
66	119.22.1303.38037	TGE14
68	119.22.1303.37949	TGE16
70	119.22.1303.37969	TGE18
72	119.22.1315.26260	TGE20
74	119.22.1315.29143	TGE22
76	119.22.1314.17493	T16
78	119.22.1314.07263	T09
80	119.22.1315.33037	TGE22A
82	119.22.1315.17613	T48A
84	BRCLBSUB0119	
86	GABRST160118	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

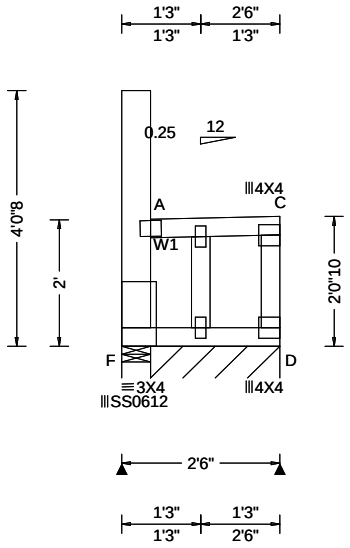
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 8

SEQN: 34813 GABL FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J01G	Cust: R 9316 JRef:1Xf493160006 T208 DrwNo: 119.22.1313.47030 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
18SS, WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	A	999	360
VERT(CL): 0.007	A	999	240
HORZ(LL): 0.092	A	-	-
HORZ(TL): 0.105	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.129
Max BC CSI: 0.373
Max Web CSI: 0.164

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	42	/-	/-	/119	/146	/99
D*	124	/-	/-	/120	/58	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 24.5 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

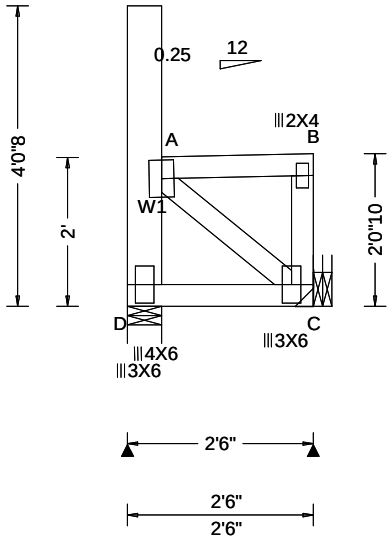
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34944 MONO FROM:	Ply: 1 Qty: 27	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02	Cust: R 9316 JRef:1Xf493160006 T218 DrwNo: 119.22.1313.48590 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.103
Max BC CSI: 0.066
Max Web CSI: 0.131

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	134	/-	/-	/101	/80	/91
C	160	/-	/-	/145	/64	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
A - C	240	-390

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

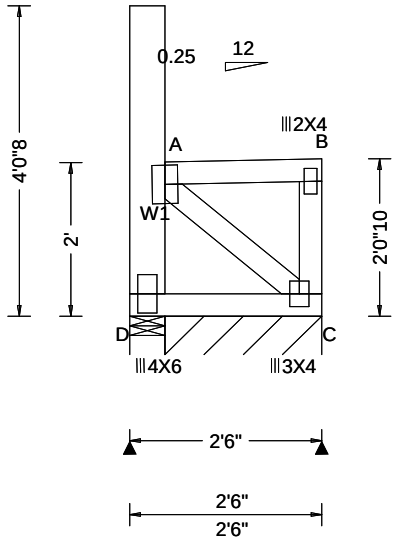
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34815 MONO FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J03	Cust: R 9316 JRef:1Xf493160006 T135 DrwNo: 119.22.1313.51260 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.103
Max BC CSI: 0.066
Max Web CSI: 0.106

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	134	/-	/-	/110	/86	/99
C*	79	/-	/-	/72	/34	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = 24.5 Min Req = -
Bearings D & D are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

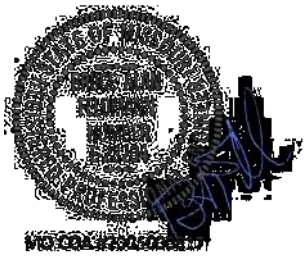
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

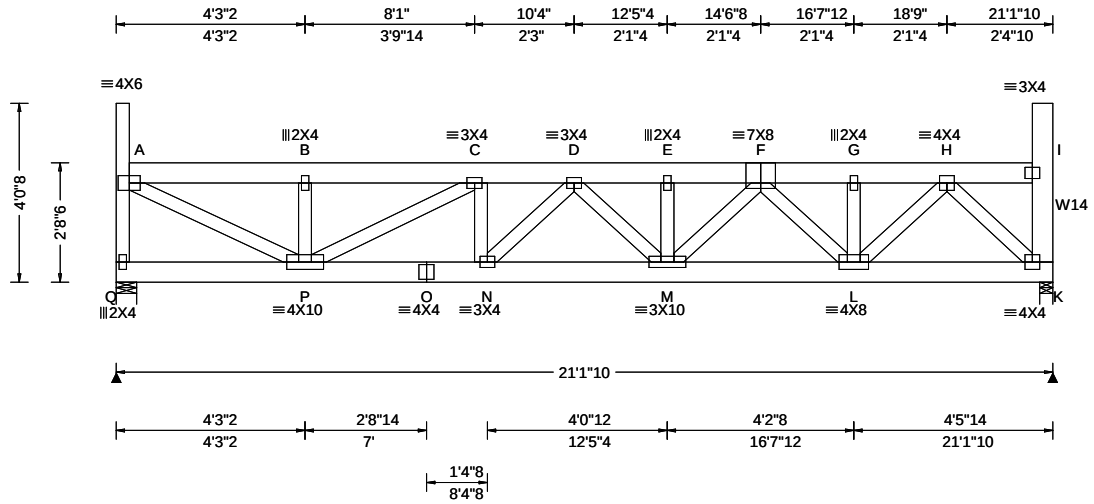
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34890 FLAT FROM:	Ply: 3 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T01	Cust: R 9316 JRef:1Xf493160006 T2 DrwNo: 119.22.1313.52920 / BAF 04/29/2022	

3 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.060	D	999	360
VERT(CL): 0.102	D	999	240
HORZ(LL): 0.014	K	-	-
HORZ(TL): 0.024	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.049
Max BC CSI: 0.262
Max Web CSI: 0.269

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	1828	/-	/-	/-	/125	/-
K	2145	/-	/-	/-	/159	/-

Wind reactions based on MWFRS
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
K Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings Q & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	72	- 1022	E - F	163	- 2045
B - C	72	- 1018	F - G	99	- 1282
C - D	122	- 1654	G - H	99	- 1282
D - E	163	- 2045			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	1617	- 119	M - L	1696	- 132
O - N	1617	- 119	L - K	711	- 54
N - M	1870	- 143			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - A	40	- 575	F - L	49	- 605
A - P	1096	- 77	L - H	835	- 66
P - C	55	- 695	H - K	73	- 964
M - F	509	- 44			

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 20.68
BC: From 50 plf at 0.00 to 50 plf at 21.14
BC: 1489 lb Conc. Load at 12.90

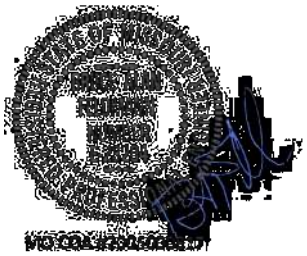
Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.39	1.34	13.80	3.32
20.68	0.00	20.39	1.34	13.80	3.32

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

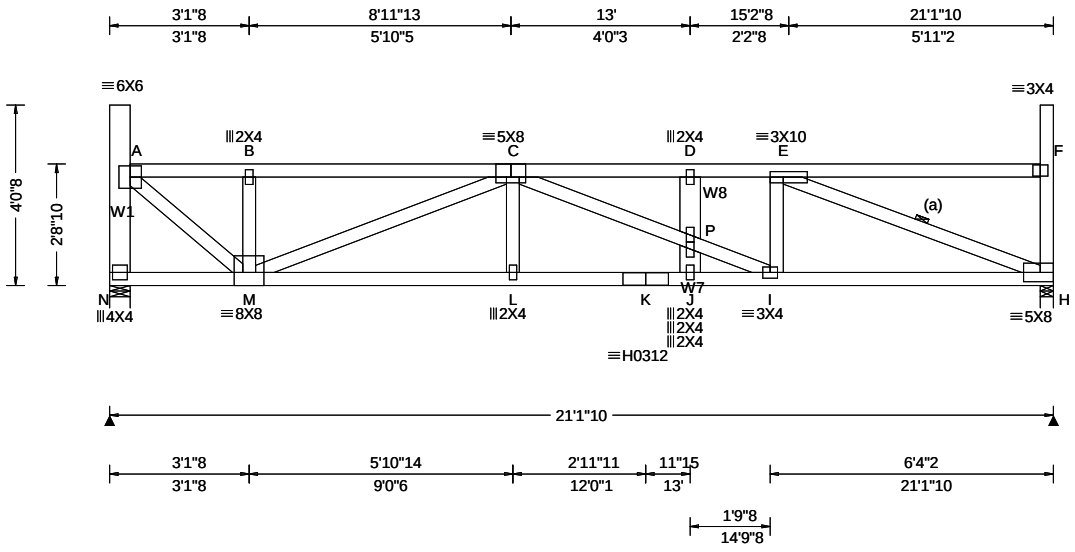
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

MQ COA #2005000817

Building 8

SEQN: 34816 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T02	Cust: R 9316 JRef:1Xf493160006 T165 DrwNo: 119.22.1313.54597 / BAF 04/29/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.155	D	999	360
VERT(CL): 0.266	D	953	240
HORZ(LL): 0.046	H	-	-
HORZ(TL): 0.079	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.427
Max BC CSI: 0.928
Max Web CSI: 0.991

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1234	/-	/-	/534	/77	/121
H	1246	/-	/-	/539	/79	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.9 (Truss)
H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	137	- 1501	C - D	147	- 2445
B - C	137	- 1498	D - E	147	- 2445

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2806	- 237	J - I	2806	- 237
L - K	2806	- 237	I - H	2383	- 164
K - J	2806	- 237			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	82	- 1190	P - I	94	- 403
A - M	1788	- 123	I - E	524	- 3
M - C	127	- 1414	E - H	176	- 2524
C - P	93	- 386			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.32	13.12	3.16
20.84	0.00	20.39	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

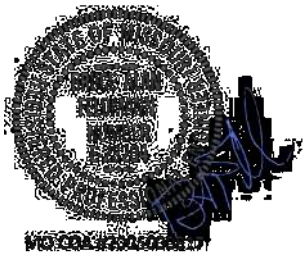
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

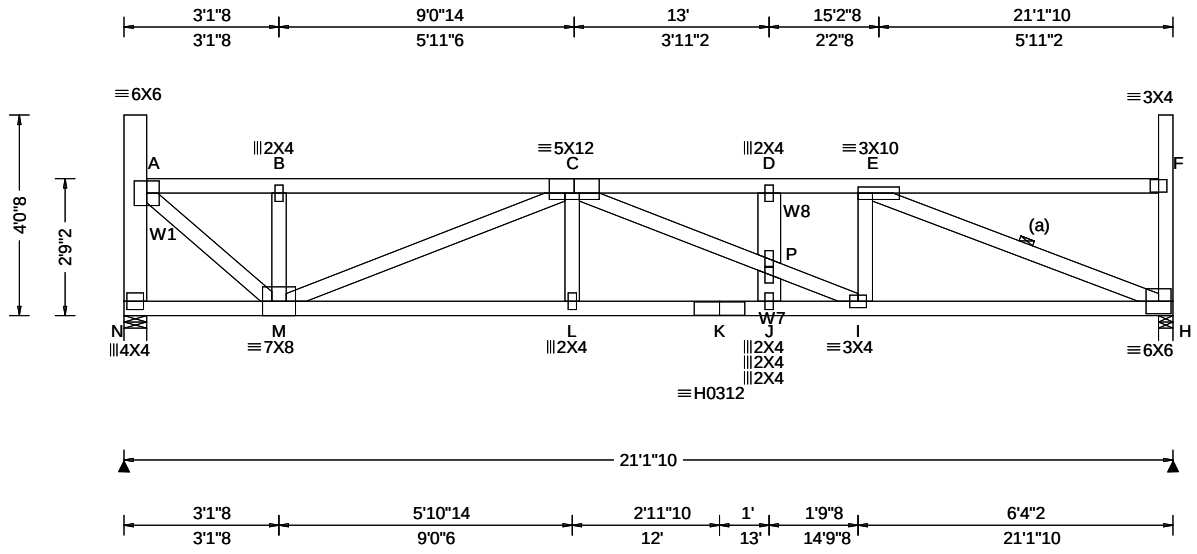
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34817 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T03	Cust: R 9316 JRef:1Xf493160006 T168 DrwNo: 119.22.1313.56303 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.151	D	999	360
VERT(CL): 0.259	D	979	240
HORZ(LL): 0.045	H	-	-
HORZ(TL): 0.078	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.427
Max BC CSI: 0.921
Max Web CSI: 0.985

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1236	/-	/-	/534	/78	/120
H	1248	/-	/-	/539	/80	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.9 (Truss)
H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	135	- 1478	C - D	146	- 2408
B - C	135	- 1475	D - E	146	- 2408

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2766	- 235	J - I	2766	- 235
L - K	2766	- 235	I - H	2346	- 163
K - J	2766	- 235			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	82	- 1192	P - I	93	- 401
A - M	1771	- 123	I - E	525	- 3
M - C	126	- 1399	E - H	175	- 2492
C - P	92	- 384			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.28	11.74	2.83
20.84	0.00	20.39	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

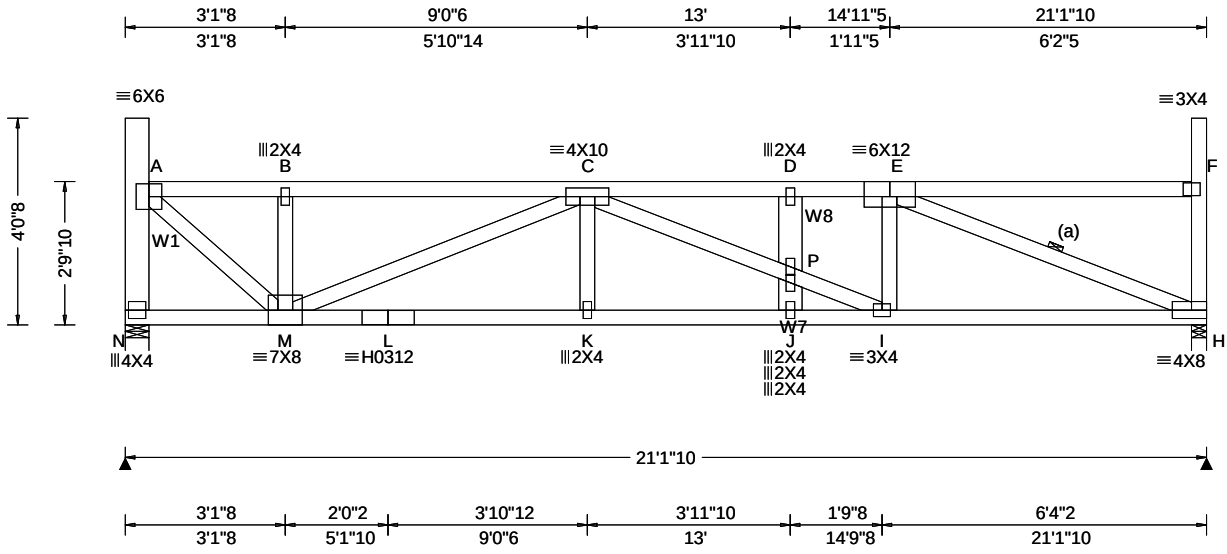
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34818 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T04	Cust: R 9316 JRef:1Xf493160006 T134 DrwNo: 119.22.1313.58157 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	D	999	360
VERT(CL): 0.242	D	999	240
HORZ(LL): 0.045	H	-	-
HORZ(TL): 0.076	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.438
Max BC CSI: 0.913
Max Web CSI: 0.979

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1236	/-	/-	/534	/78	/119
H	1248	/-	/-	/539	/80	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.9 (Truss)
H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	132	- 1454	C - D	168	- 2365
B - C	132	- 1450	D - E	168	- 2365

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2724	- 233	J - I	2724	- 233
L - K	2724	- 233	I - H	2304	- 161
K - J	2724	- 233			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	82	- 1193	P - I	92	- 655
A - M	1753	- 121	I - E	530	- 3
M - C	124	- 1383	E - H	172	- 2453
C - P	91	- 627			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.24	10.35	2.50
20.84	0.00	20.39	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

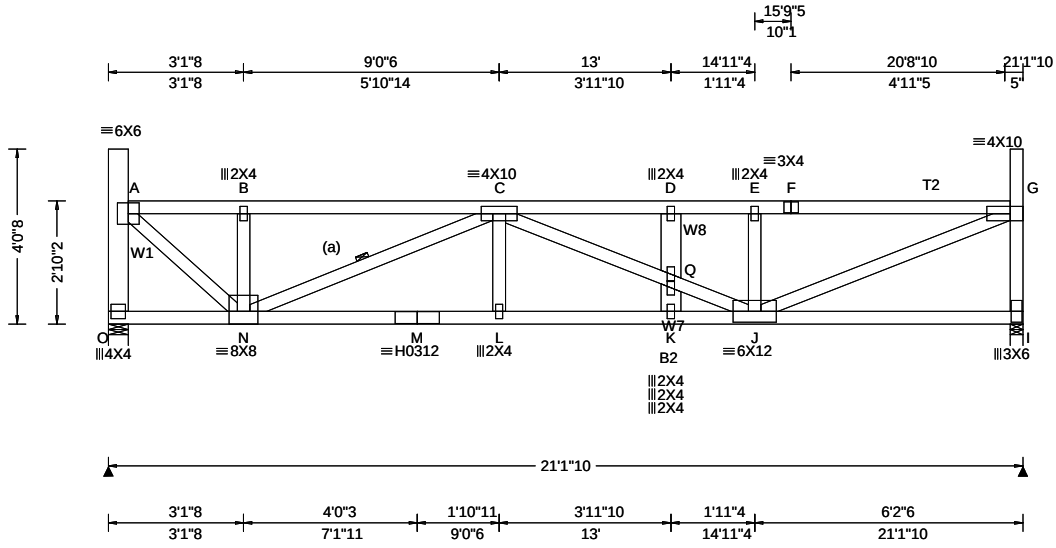
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34884 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T05	Cust: R 9316 JRef:1Xf493160006 T167 DrwNo: 119.22.1313.59860 / BAF 04/29/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.156 D	999	360
VERT(CL):	0.268 D	944	240
HORZ(LL):	0.036 A	-	-
HORZ(TL):	0.061 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.608
Max BC CSI: 0.958
Max Web CSI: 0.717

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	1326	/-	/-	/-	/121	/-
I	1494	/-	/-	/-	/241	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 2.1 (Truss)
I Brg Wid = 3.5 Min Req = 1.9 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	143	- 1537	D - E	437	- 2809
B - C	143	- 1533	E - F	437	- 2806
C - D	437	- 2809	F - G	437	- 2814

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	3005	- 336	L - K	3005	- 336
M - L	3005	- 336	K - J	3005	- 336

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	118	- 1280	Q - J	0	- 416
A - N	1865	- 174	J - G	2923	- 454
N - C	211	- 1603	G - I	186	- 1318
C - Q	0	- 402			

Lumber

Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 20.84
BC: From 50 plf at 0.00 to 50 plf at 13.29
BC: From 25 plf at 13.29 to 25 plf at 21.14
BC: 133 lb Conc. Load at 13.29,15.07,17.07,19.07

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.20	8.97	2.16
20.84	0.00	20.39	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

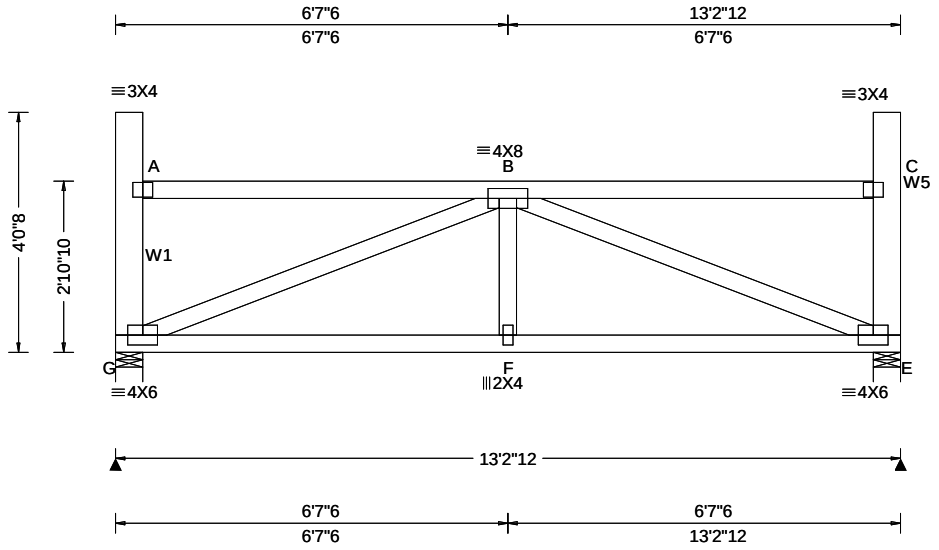
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34819 SPEC FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T06	Cust: R 9316 JRef:1Xf493160006 T149 DrwNo: 119.22.1314.01430 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.043	F	999	360
VERT(CL): 0.074	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.026	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.550
Max BC CSI: 0.642
Max Web CSI: 0.986

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	762	/-	/-	/341	/59	/116
E	762	/-	/-	/341	/59	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1210	- 166	F - E	1210	- 166

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	179	- 1233	B - E	176	- 1233

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.59	1.83
12.77	0.00	20.00	1.16	7.59	1.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

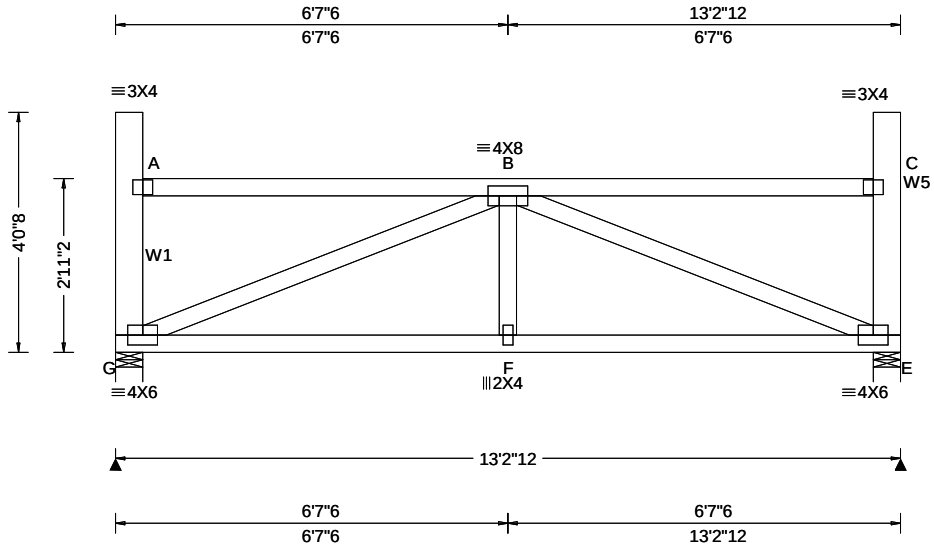
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34820 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T07	Cust: R 9316 JRef:1Xf493160006 T146 DrwNo: 119.22.1314.02903 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.042	F	999	360
VERT(CL): 0.072	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.026	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.551
Max BC CSI: 0.639
Max Web CSI: 0.977

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	762	/-	/-	/341	/59	/115
E	762	/-	/-	/341	/59	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1191	- 164	F - E	1191	- 164

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	175	- 1217	B - E	173	- 1217

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.11	6.20	1.50
12.77	0.00	20.00	1.11	6.20	1.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

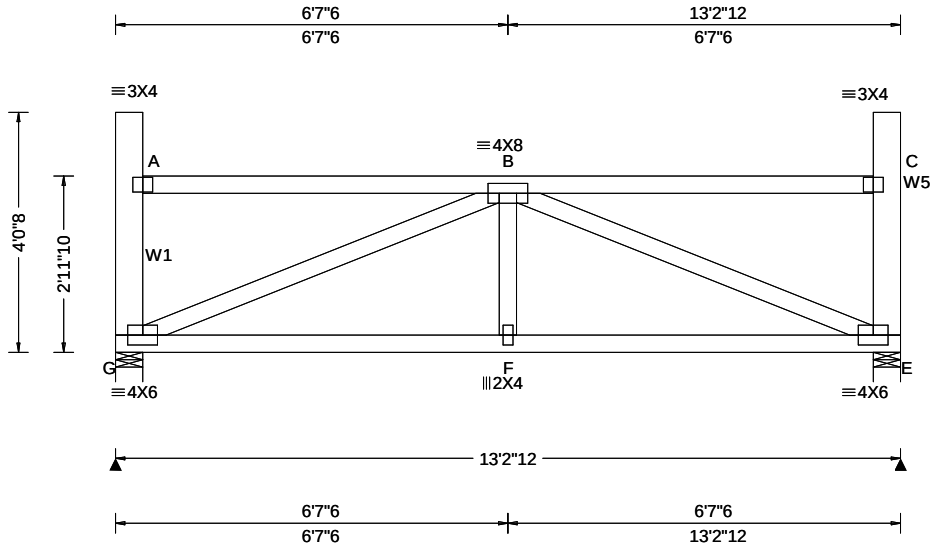
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34938 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T08	Cust: R 9316 JRef:1Xf493160006 T150 DrwNo: 119.22.1314.04320 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.041	F	999	360
VERT(CL): 0.070	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.025	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.551
Max BC CSI: 0.636
Max Web CSI: 0.969

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	762	/-	/-	/341	/59	/114
E	762	/-	/-	/341	/59	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1173	- 162	F - E	1173	- 162

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	171	- 1201	B - E	169	- 1201

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

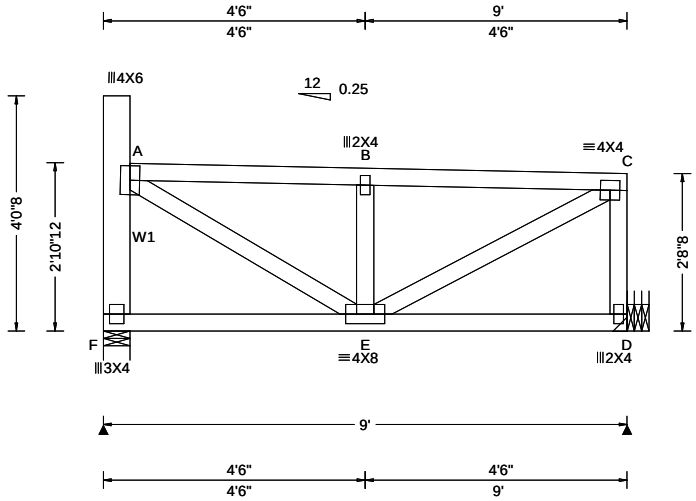
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34889 MONO FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T10	Cust: R 9316 JRef:1Xf493160006 T1 DrwNo: 119.22.1314.08717 / BAF 04/29/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.46 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.015	B	999	360
VERT(CL): 0.026	B	999	240
HORZ(LL): 0.004	A	-	-
HORZ(TL): 0.006	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.129
Max BC CSI: 0.426
Max Web CSI: 0.218

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	1266	/-	/-	/-	/182	/-
D	1489	/-	/-	/-	/155	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = - Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	99	- 795	B - C	99	- 796

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
F - A	53	- 455	E - C	887	- 111
A - E	841	- 101	C - D	57	- 472

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 4.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 35 plf at 0.46 to 35 plf at 9.00
BC: From 50 plf at 0.00 to 50 plf at 2.33
BC: From 25 plf at 2.33 to 25 plf at 9.00
BC: 713 lb Conc. Load at 2.33
BC: 487 lb Conc. Load at 4.33, 6.33, 8.33

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.84

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

04/29/2022

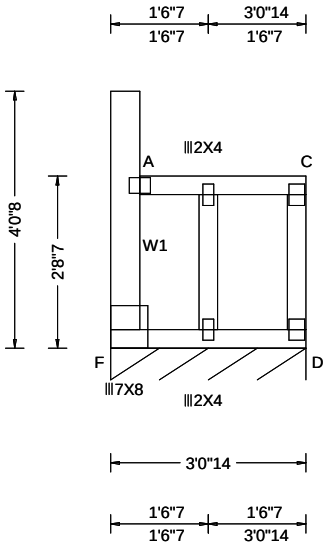
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34822 GABL FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T11	Cust: R 9316 JRef:1Xf493160006 T187 DrwNo: 119.22.1314.10050 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	A	999	360
VERT(CL): 0.009	A	999	240
HORZ(LL): 0.117	A	-	-
HORZ(TL): 0.136	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.116
Max BC CSI: 0.326
Max Web CSI: 0.142

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	110	/-	/-	/46	/5	/30

Wind reactions based on MWFRS
D Brg Wid = 36.9 Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.34	13.63	2.61

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

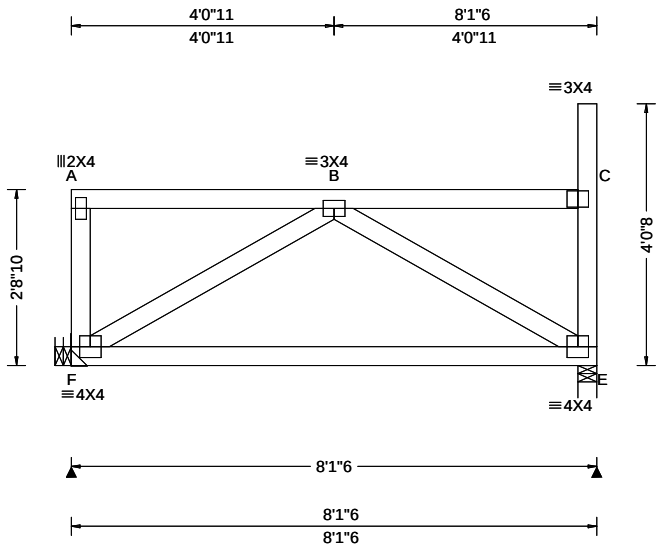
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34823 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T12	Cust: R 9316 JRef:1Xf493160006 T110 DrwNo: 119.22.1314.11437 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.004	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.216
Max BC CSI: 0.818
Max Web CSI: 0.203

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	487	/-	/-	/230	/46	/93
E	467	/-	/-	/215	/47	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

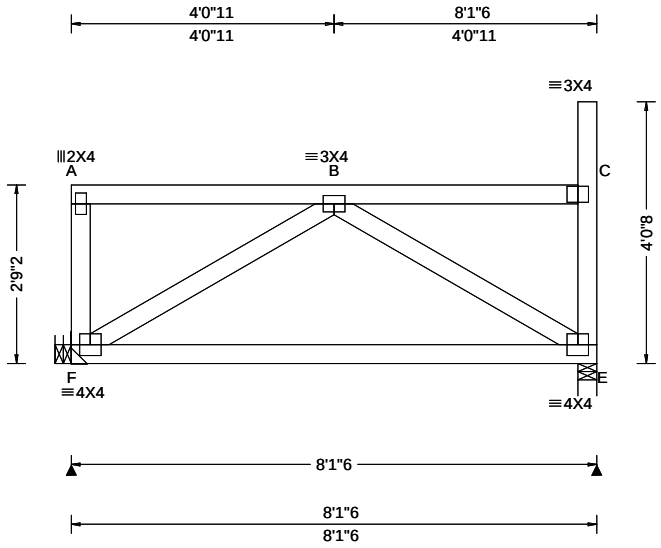
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

MO COA #2005000817

Building 8

SEQN: 34824 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T13	Cust: R 9316 JRef:1Xf493160006 T229 DrwNo: 119.22.1314.12840 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.004	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.216
Max BC CSI: 0.817
Max Web CSI: 0.203

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	487	/-	/-	/229	/46	/92
E	467	/-	/-	/215	/47	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

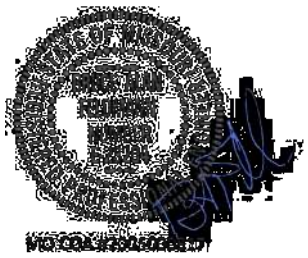
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

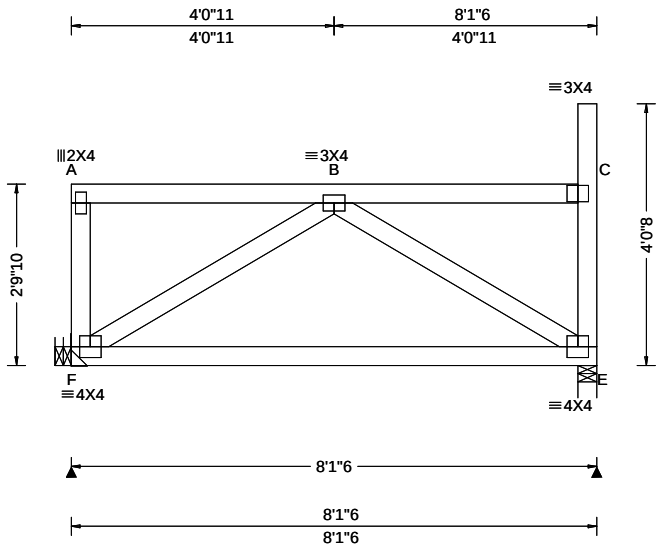
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

MQ COA #3005000817

Building 8

SEQN: 34825 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T14	Cust: R 9316 JRef:1Xf493160006 T206 DrwNo: 119.22.1314.14193 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.004	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.217
Max BC CSI: 0.815
Max Web CSI: 0.203

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	487	/-	/-	/229	/46	/92
E	467	/-	/-	/215	/47	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

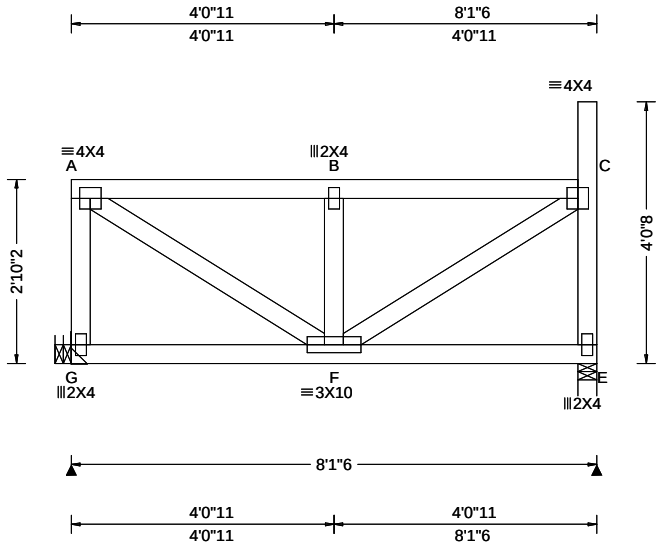
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34886 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T15	Cust: R 9316 JRef:1Xf493160006 T212 DrwNo: 119.22.1314.15803 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.012	B	999	360
VERT(CL): 0.020	B	999	240
HORZ(LL): -0.002	C	-	-
HORZ(TL): 0.004	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.240
Max BC CSI: 0.306
Max Web CSI: 0.178

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	713	/-	/-	/-	/169	/-
E	569	/-	/-	/-	/111	/-

Wind reactions based on MWFRS
G Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	135	-625	B - C	135	-629

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	89	-502	F - C	698	-152
A - F	725	-156	C - E	89	-484

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 7.82
BC: From 25 plf at 0.00 to 25 plf at 8.11
BC: 133 lb Conc. Load at 0.27, 2.05, 4.05, 6.05

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

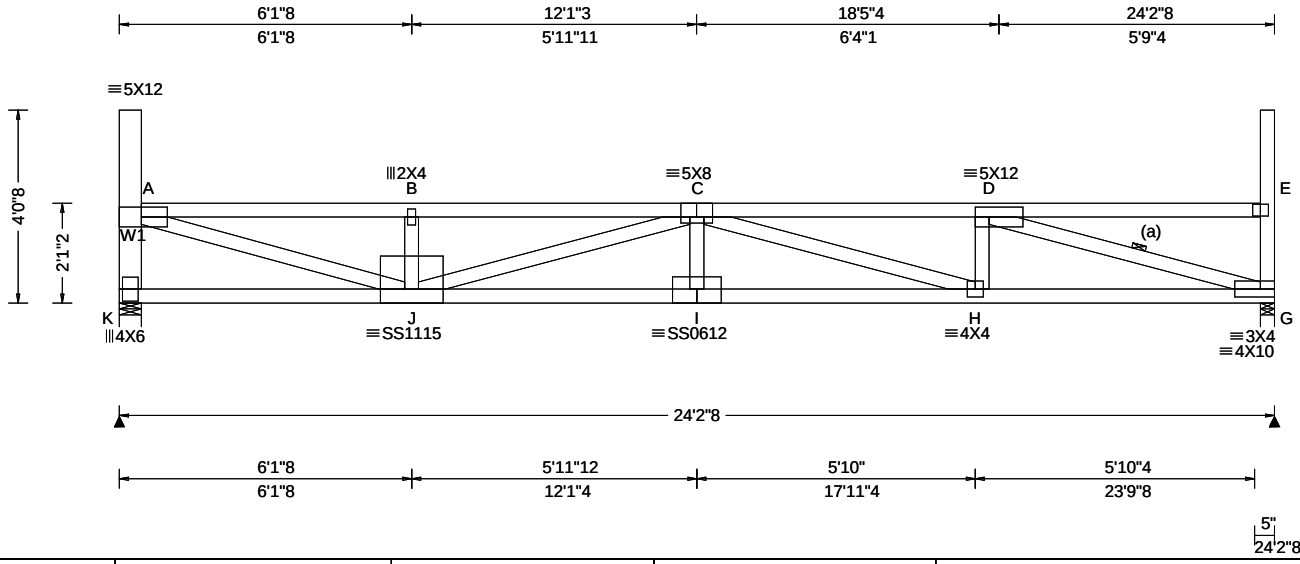
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34896 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T17	Cust: R 9316 JRef:1Xf493160006 T175 DrwNo: 119.22.1314.19233 / BAF 04/29/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.397 I	732	360
VERT(CL):	0.680 I	427	240
HORZ(LL):	0.062 G	-	-
HORZ(TL):	0.107 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.875
Max BC CSI: 0.671
Max Web CSI: 0.937

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1420	/-	/-	/612	/84	/139
G	1432	/-	/-	/617	/86	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	257	-3857	C - D	254	-3893
B - C	256	-3852			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5003	-325	H - G	3785	-219
I - H	5003	-325			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	97	-1275	C - H	142	-1161
A - J	3820	-259	H - D	677	-1
J - C	144	-1202	D - G	254	-3898

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.95	33.87	4.20
23.92	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.40" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

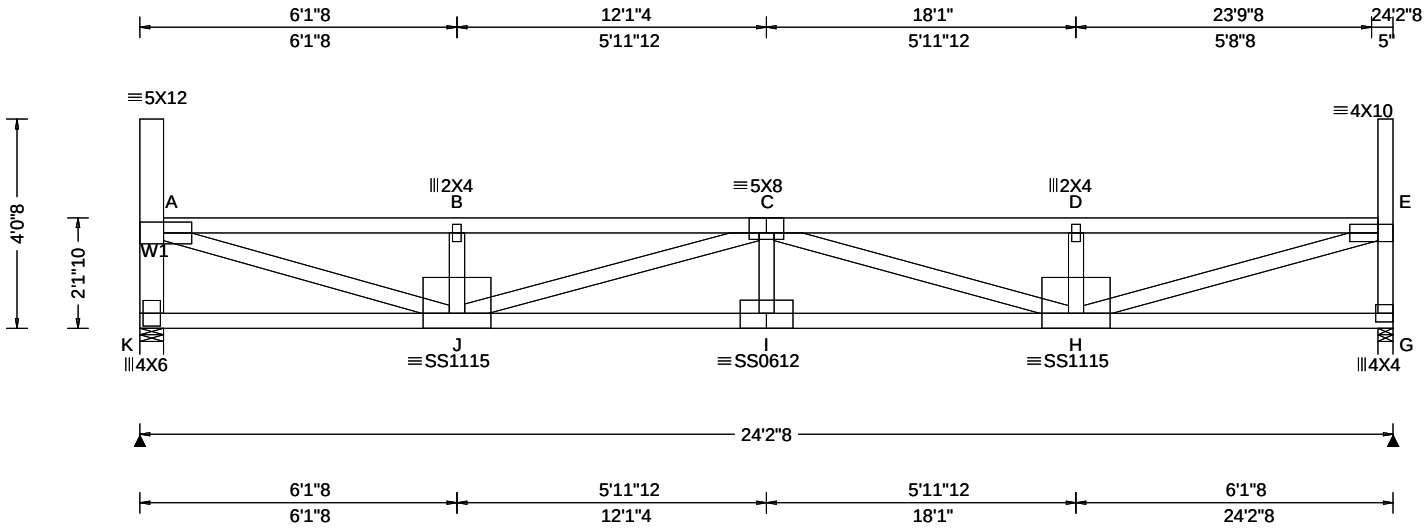
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34827 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T18	Cust: R 9316 JRef:1Xf493160006 T180 DrwNo: 119.22.1314.20977 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.390 I	745	360
VERT(CL):	0.668 I	434	240
HORZ(LL):	0.059 A	-	-
HORZ(TL):	0.101 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.873
Max BC CSI: 0.653
Max Web CSI: 0.937

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1421	/-	/-	/611	/85	/138
G	1432	/-	/-	/616	/87	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	252	- 3773	C - D	252	- 3778
B - C	252	- 3768	D - E	253	- 3784

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	4893	- 319	I - H	4893	- 319

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	98	- 1275	C - H	135	- 1166
A - J	3744	- 254	H - E	3820	- 254
J - C	139	- 1176	E - G	100	- 1295

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.91	32.49	4.38
23.92	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.39" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

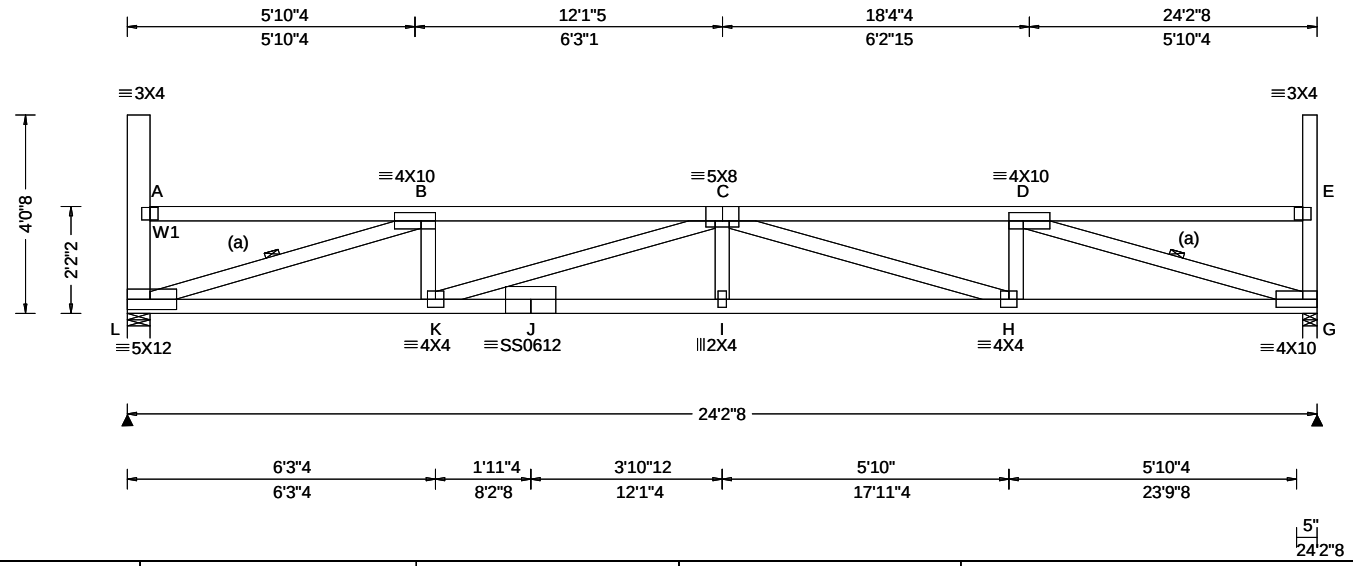
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34828 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T19	Cust: R 9316 JRef:1Xf493160006 T171 DrwNo: 119.22.1314.22733 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.356 I	815	360
VERT(CL):	0.610 I	476	240
HORZ(LL):	0.075 G	-	-
HORZ(TL):	0.129 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.629
Max BC CSI: 0.622
Max Web CSI: 0.787

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/611	/85	/136
G	1432	/-	/-	/616	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	244	- 3716	C - D	244	- 3726

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3614	- 354	I - H	4787	- 316
K - J	4787	- 316	H - G	3622	- 213
J - I	4787	- 316			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	247	- 3698	C - H	136	- 1116
B - K	667	- 2	H - D	678	- 1
K - C	137	- 1126	D - G	244	- 3746

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.36" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

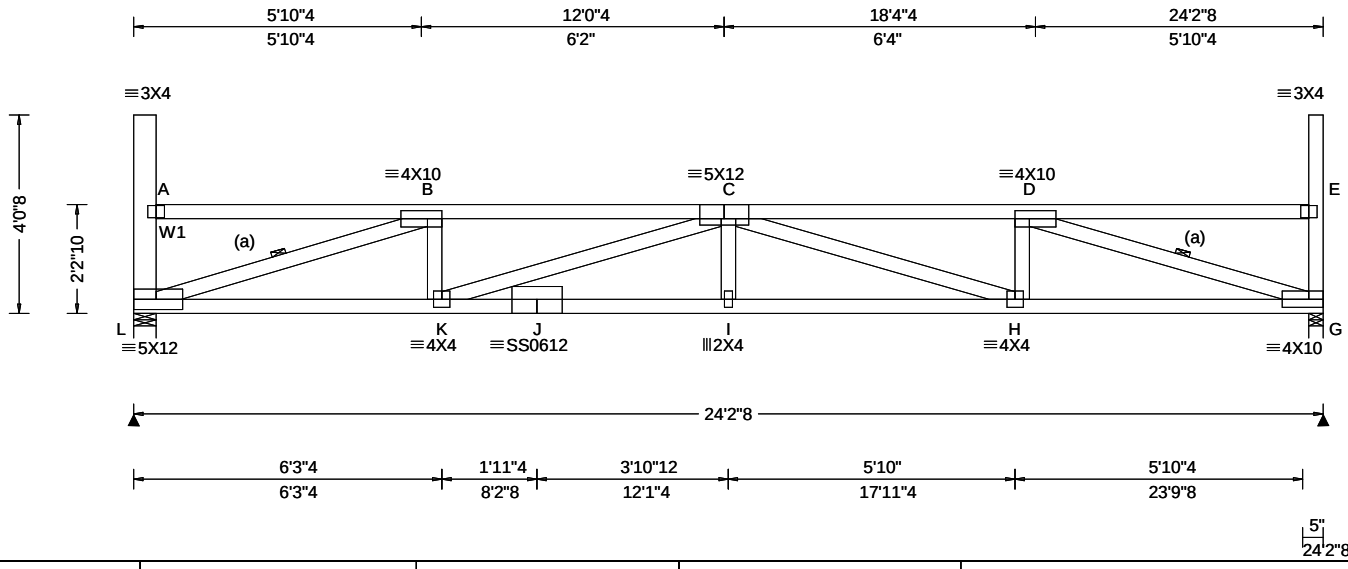
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34829 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T20	Cust: R 9316 JRef:1Xf493160006 T179 DrwNo: 119.22.1314.24487 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.89 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.342 I	850	360
VERT(CL):	0.586 I	496	240
HORZ(LL):	0.074 G	-	-
HORZ(TL):	0.126 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.609
Max BC CSI: 0.610
Max Web CSI: 0.774

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/611	/85	/135
G	1432	/-	/-	/616	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	240	- 3638	C - D	240	- 3648

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3539	- 349	I - H	4686	- 311
K - J	4686	- 311	H - G	3546	- 211
J - I	4686	- 311			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	243	- 3629	C - H	133	- 1093
B - K	667	- 2	H - D	679	- 1
K - C	134	- 1104	D - G	240	- 3676

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.82	29.72	4.79
23.92	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

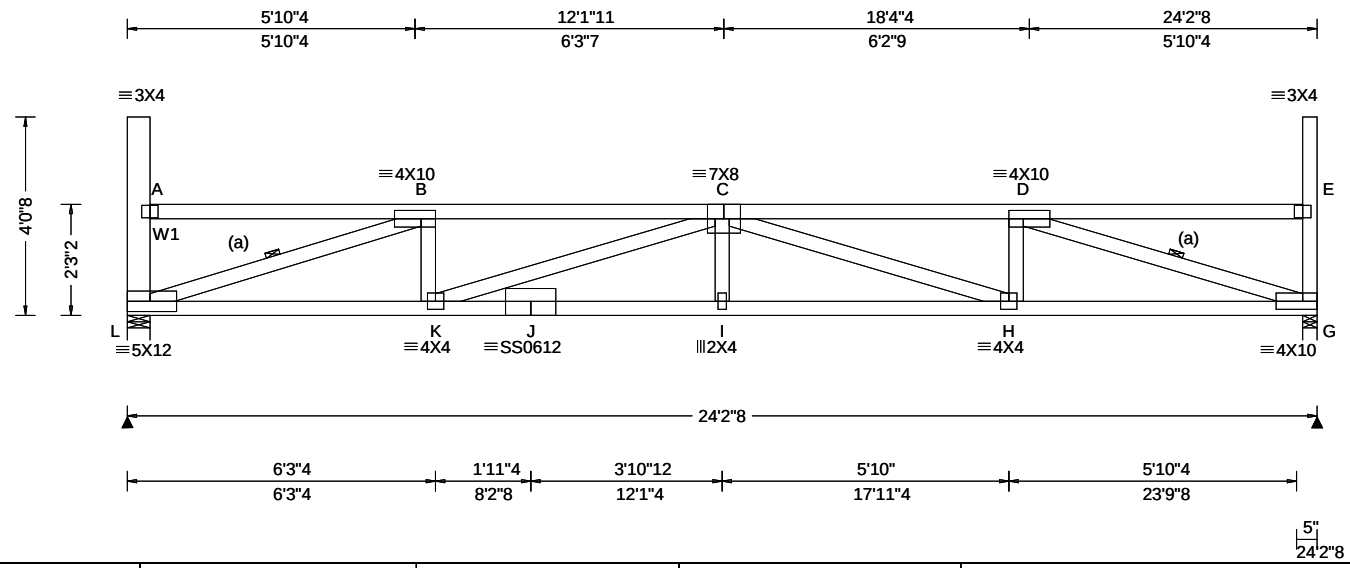
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34830 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T21	Cust: R 9316 JRef:1Xf493160006 T183 DrwNo: 119.22.1314.26127 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.93 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.328 I	886	360
VERT(CL):	0.562 I	517	240
HORZ(LL):	0.072 G	-	-
HORZ(TL):	0.123 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.590
Max BC CSI: 0.600
Max Web CSI: 0.761

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1419	/-	/-	/611	/85	/134
G	1431	/-	/-	/616	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	211	-3560	C - D	211	-3569

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3462	-342	I - H	4581	-304
K - J	4581	-304	H - G	3470	-207
J - I	4581	-304			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	238	-3559	C - H	129	-1068
B - K	666	-1	H - D	677	0
K - C	130	-1078	D - G	235	-3604

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

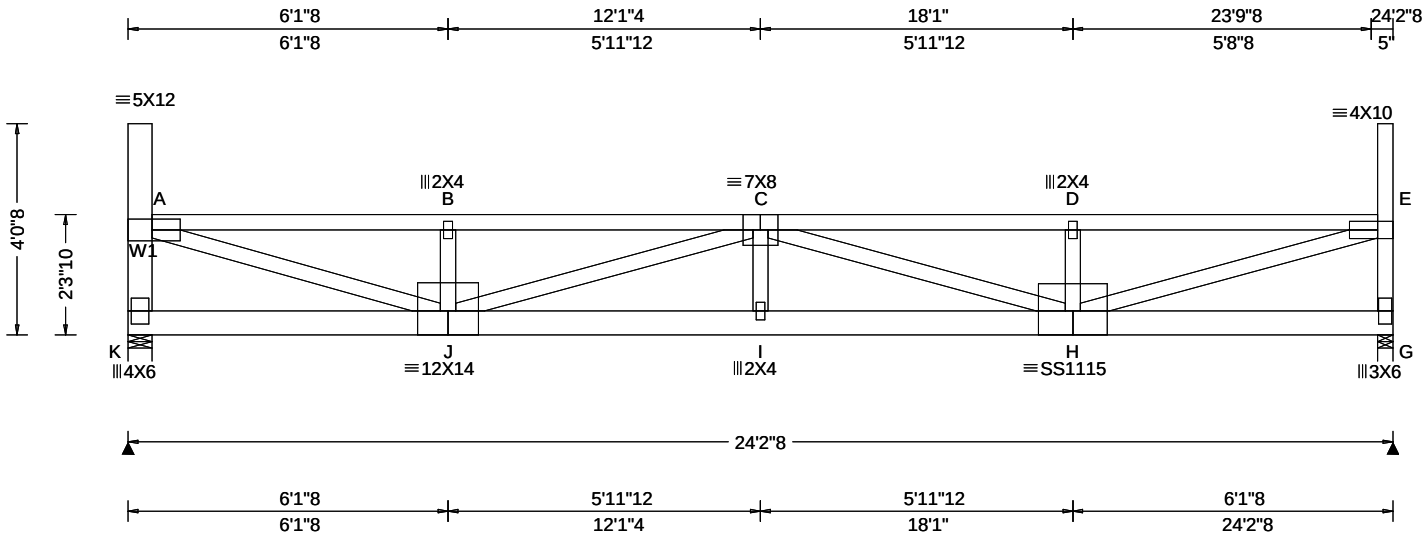
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34902 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T22	Cust: R 9316 JRef:1Xf493160006 T174 DrwNo: 119.22.1314.27763 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.97 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.342 I	849	360
VERT(CL):	0.573 I	506	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.091 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.834
Max BC CSI: 0.604
Max Web CSI: 0.914

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1466	/-	/-	/611	/84	/129
G	1478	/-	/-	/616	/86	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.3 (Truss)
G Brg Wid = 3.5 Min Req = 2.3 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	216	- 3663	C - D	215	- 3664
B - C	215	- 3658	D - E	216	- 3670

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	4810	- 304	I - H	4810	- 304

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	96	- 1303	C - H	113	- 1204
A - J	3657	- 236	D - H	79	- 394
B - J	79	- 391	H - E	3723	- 238
J - C	119	- 1211	E - G	99	- 1321

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.74	26.95	5.28
23.92	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

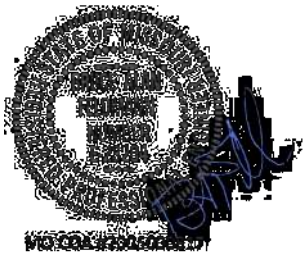
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

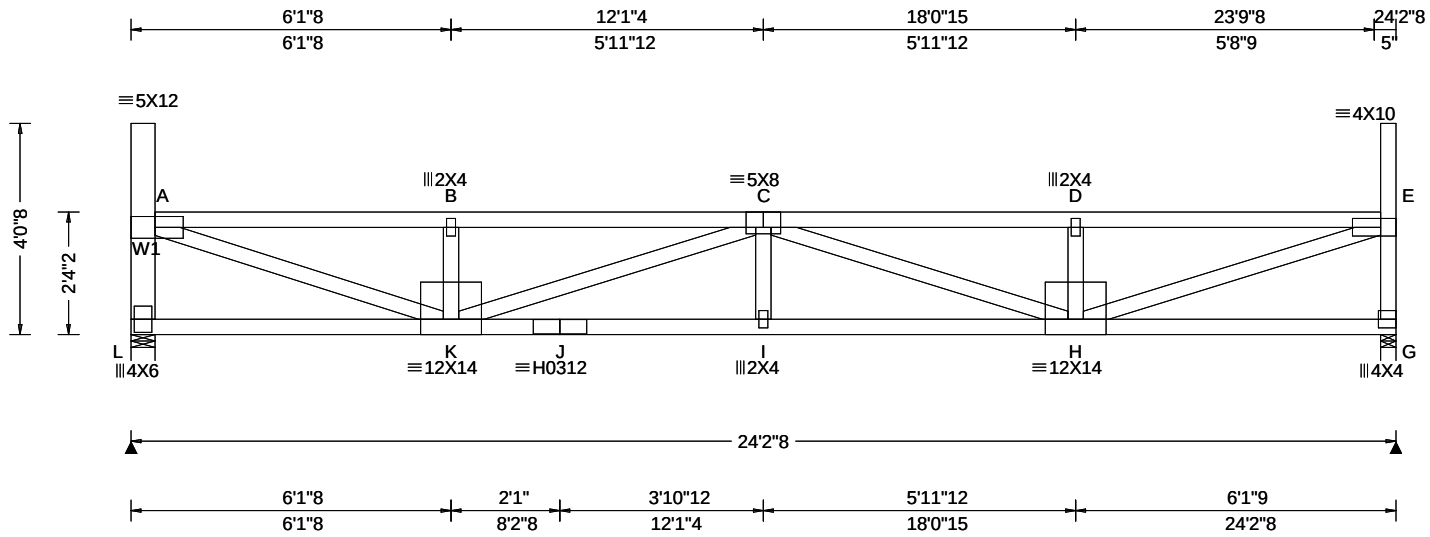
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34832 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T23	Cust: R 9316 JRef:1Xf493160006 T184 DrwNo: 119.22.1314.29380 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.318 I	912	360
VERT(CL):	0.545 I	532	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.092 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.807
Max BC CSI: 0.585
Max Web CSI: 0.853

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/611	/85	/132
G	1432	/-	/-	/616	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	209	- 3403	C - D	209	- 3407
B - C	209	- 3398	D - E	209	- 3412

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4405	- 295	I - H	4405	- 295
J - I	4405	- 295			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	99	- 1278	D - H	79	- 377
A - K	3408	- 231	H - E	3476	- 231
K - C	114	- 1064	E - G	101	- 1297
C - H	111	- 1055			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.70	25.57	5.57
23.92	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

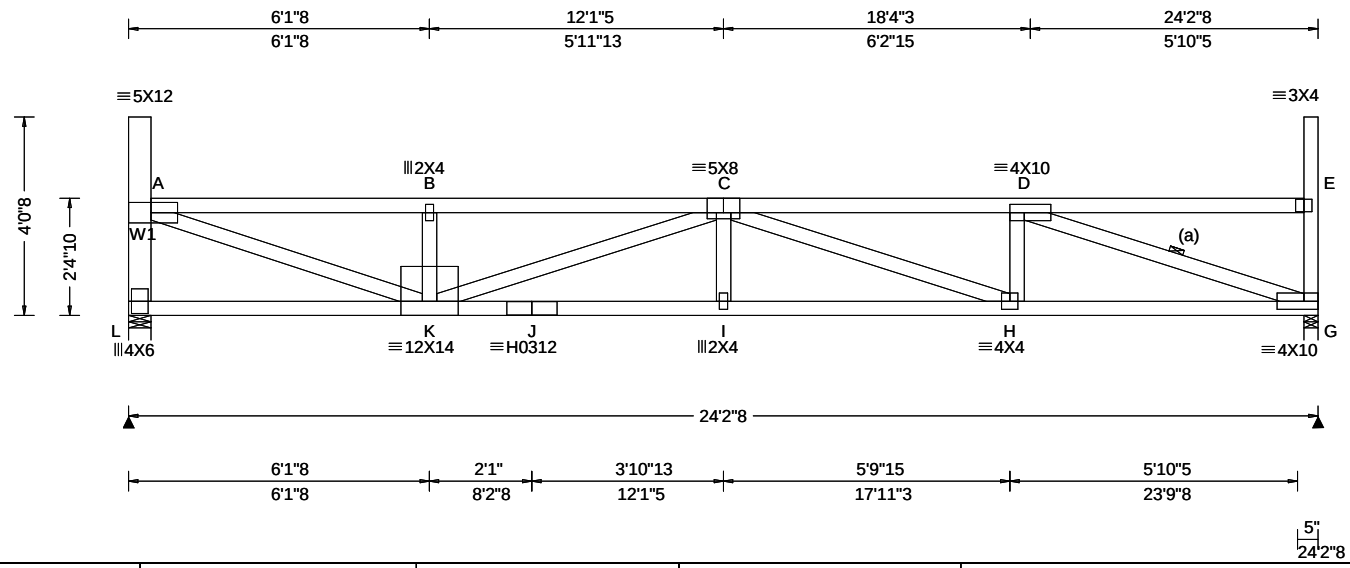
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34833 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T24	Cust: R 9316 JRef:1Xf493160006 T176 DrwNo: 119.22.1314.31003 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.299	I	972	360
VERT(CL): 0.512	I	567	240
HORZ(LL): 0.054	G	-	-
HORZ(TL): 0.092	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.764
Max BC CSI: 0.579
Max Web CSI: 0.822

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/611	/85	/131
G	1432	/-	/-	/616	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	206	- 3337	C - D	202	- 3365
B - C	205	- 3332			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4318	- 292	I - H	4318	- 292
J - I	4318	- 292	H - G	3272	- 202

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1279	C - H	112	- 1012
A - K	3348	- 227	H - D	677	0
K - C	112	- 1044	D - G	225	- 3421

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

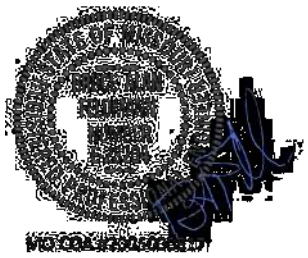
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

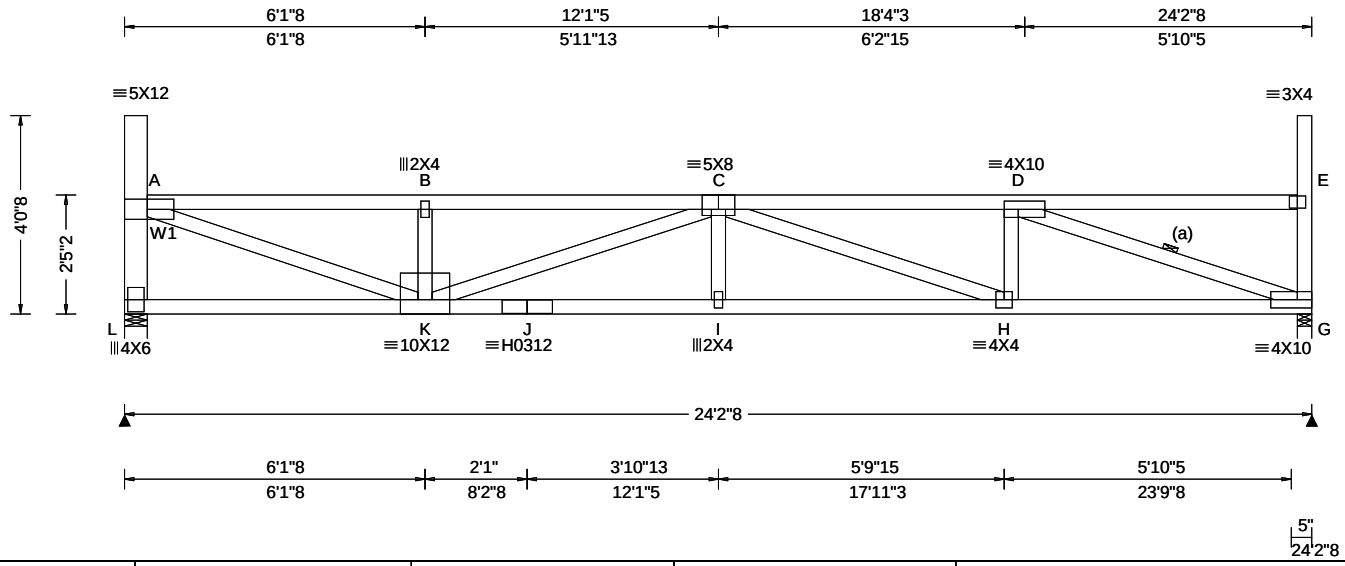
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

MQ COA #2005000817

Building 8

SEQN: 34834 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T25	Cust: R 9316 JRef:1Xf493160006 T172 DrwNo: 119.22.1314.32617 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.288 I	999	360
VERT(CL):	0.493 I	588	240
HORZ(LL):	0.053 G	-	-
HORZ(TL):	0.090 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.728
Max BC CSI: 0.570
Max Web CSI: 0.808

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/611	/85	/129
G	1432	/-	/-	/616	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	202	- 3274	C - D	198	- 3301
B - C	201	- 3269			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4235	- 288	I - H	4235	- 288
J - I	4235	- 288	H - G	3210	- 199

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1279	C - H	109	- 994
A - K	3291	- 223	H - D	677	0
B - K	79	- 376	D - G	221	- 3363
K - C	110	- 1025			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.61	22.80	5.50
23.92	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

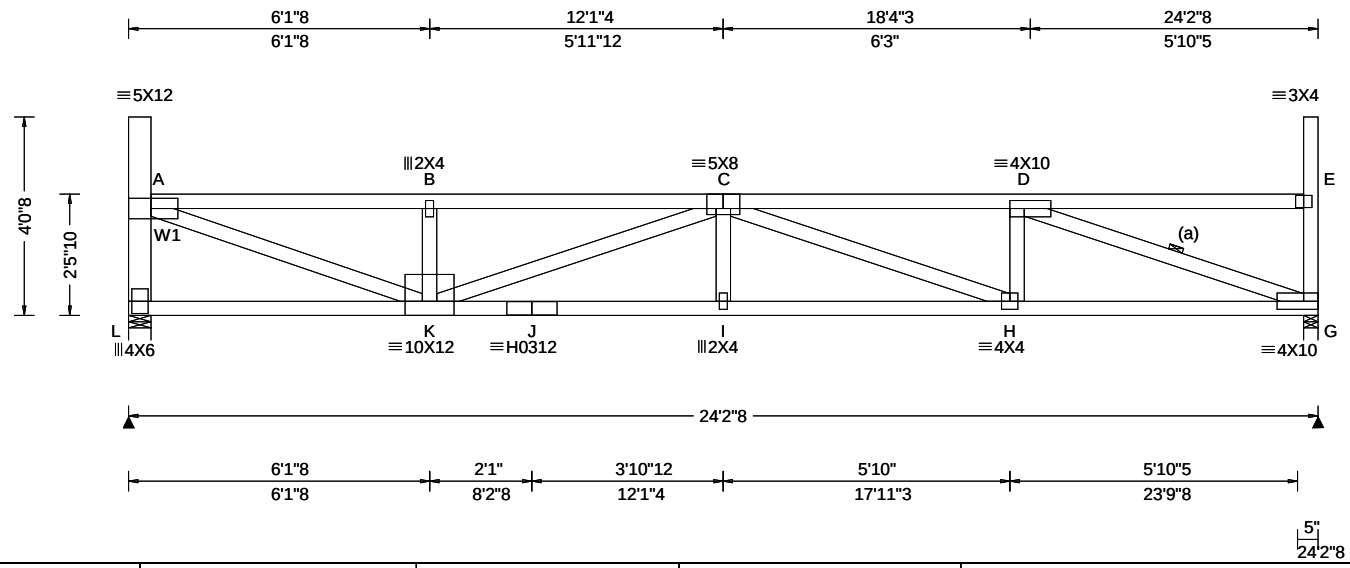
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34835 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T26	Cust: R 9316 JRef:1Xf493160006 T173 DrwNo: 119.22.1314.37510 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.278	I	999	360
VERT(CL): 0.476	I	610	240
HORZ(LL): 0.052	G	-	-
HORZ(TL): 0.089	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.696
Max BC CSI: 0.562
Max Web CSI: 0.794

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/611	/86	/128
G	1432	/-	/-	/616	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	199	- 3212	C - D	195	- 3240
B - C	198	- 3208			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4155	- 284	I - H	4155	- 284
J - I	4155	- 284	H - G	3150	- 197

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1280	C - H	107	- 977
A - K	3236	- 219	H - D	677	0
B - K	79	- 378	D - G	218	- 3308
K - C	107	- 1008			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

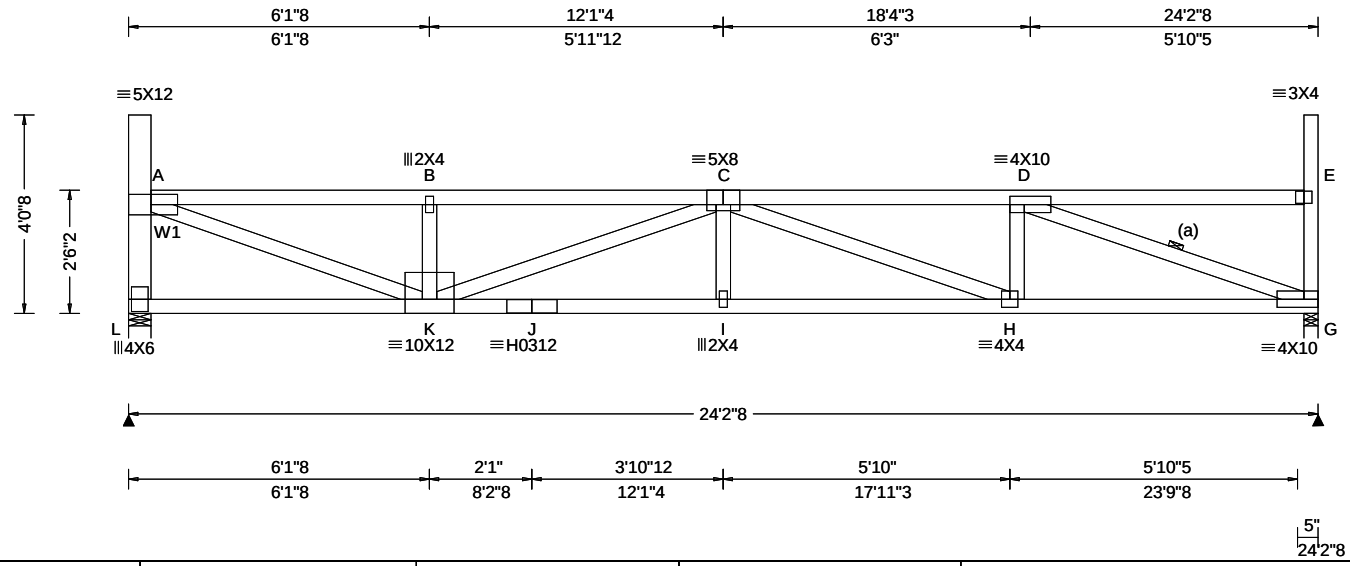
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34836 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T27	Cust: R 9316 JRef:1Xf493160006 T157 DrwNo: 119.22.1314.39170 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.268 I	999	360
VERT(CL):	0.459 I	632	240
HORZ(LL):	0.051 G	-	-
HORZ(TL):	0.087 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.665
Max BC CSI: 0.557
Max Web CSI: 0.781

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/611	/86	/127
G	1432	/-	/-	/615	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	196	- 3154	C - D	192	- 3180
B - C	195	- 3149			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4077	- 280	I - H	4077	- 280
J - I	4077	- 280	H - G	3092	- 195

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1280	C - H	105	- 960
A - K	3182	- 215	H - D	677	0
B - K	79	- 379	D - G	214	- 3255
K - C	105	- 990			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

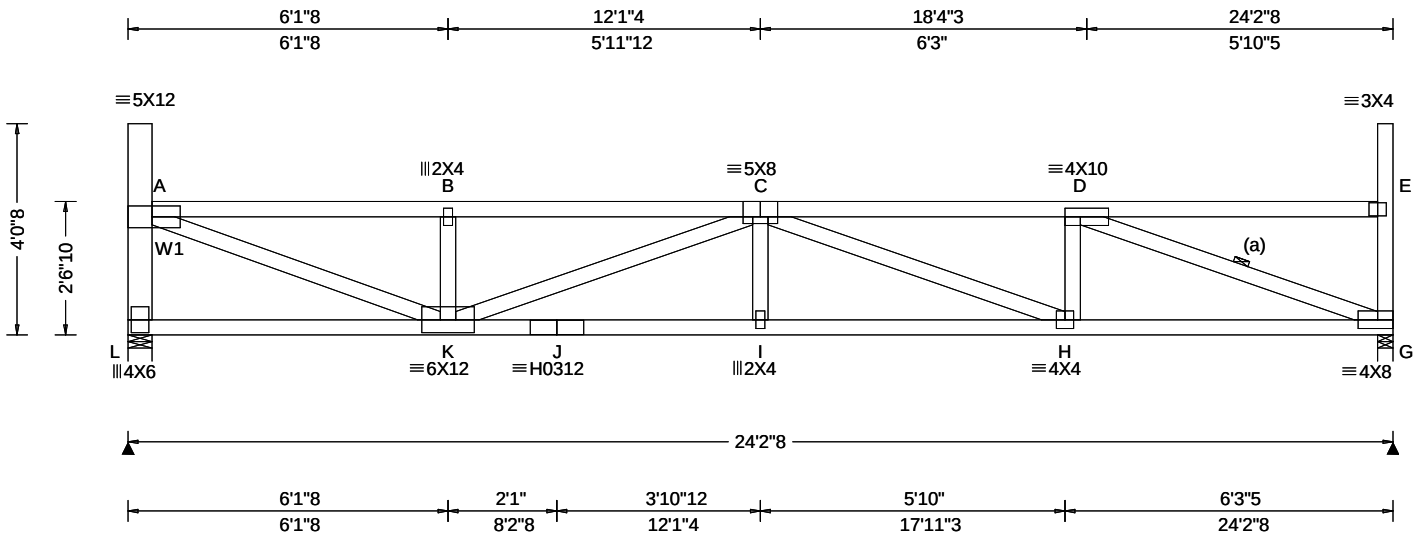
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34837 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T28	Cust: R 9316 JRef:1Xf493160006 T181 DrwNo: 119.22.1314.40810 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.259	I	999	360
VERT(CL): 0.443	I	655	240
HORZ(LL): 0.050	G	-	-
HORZ(TL): 0.086	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.637
Max BC CSI: 0.551
Max Web CSI: 0.768

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/610	/86	/126
G	1432	/-	/-	/615	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	193	- 3097	C - D	189	- 3122
B - C	192	- 3092			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4003	- 276	I - H	4003	- 276
J - I	4003	- 276	H - G	3036	- 193

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1280	C - H	103	- 944
A - K	3131	- 212	H - D	677	0
B - K	80	- 381	D - G	211	- 3204
K - C	103	- 974			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

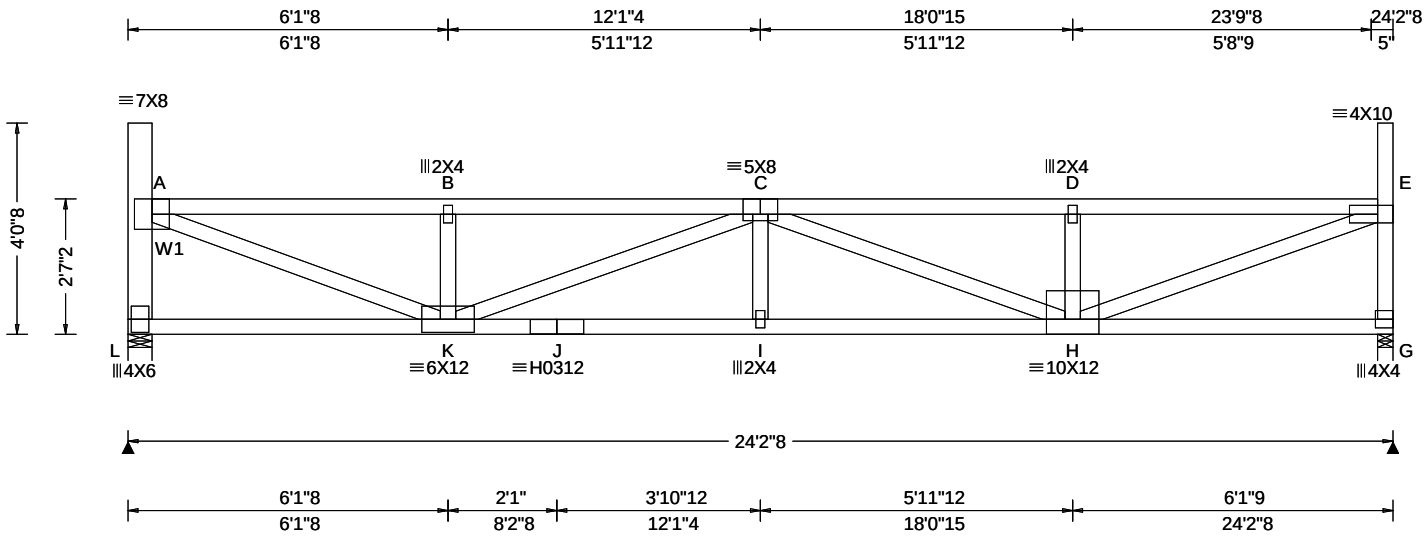
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34838 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T29	Cust: R 9316 JRef:1Xf493160006 T182 DrwNo: 119.22.1314.42410 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.256	I	999	360
VERT(CL): 0.439	I	661	240
HORZ(LL): 0.049	A	-	-
HORZ(TL): 0.083	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.645
Max BC CSI: 0.540
Max Web CSI: 0.771

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/610	/86	/125
G	1432	/-	/-	/615	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	190	- 3042	C - D	189	- 3045
B - C	189	- 3037	D - E	190	- 3050

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3931	- 272	I - H	3931	- 272
J - I	3931	- 272			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	101	- 1280	C - H	97	- 949
A - K	3082	- 209	H - E	3144	- 209
B - K	80	- 384	D - H	80	- 388
K - C	100	- 958	E - G	102	- 1299

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.45	17.27	4.16
23.92	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

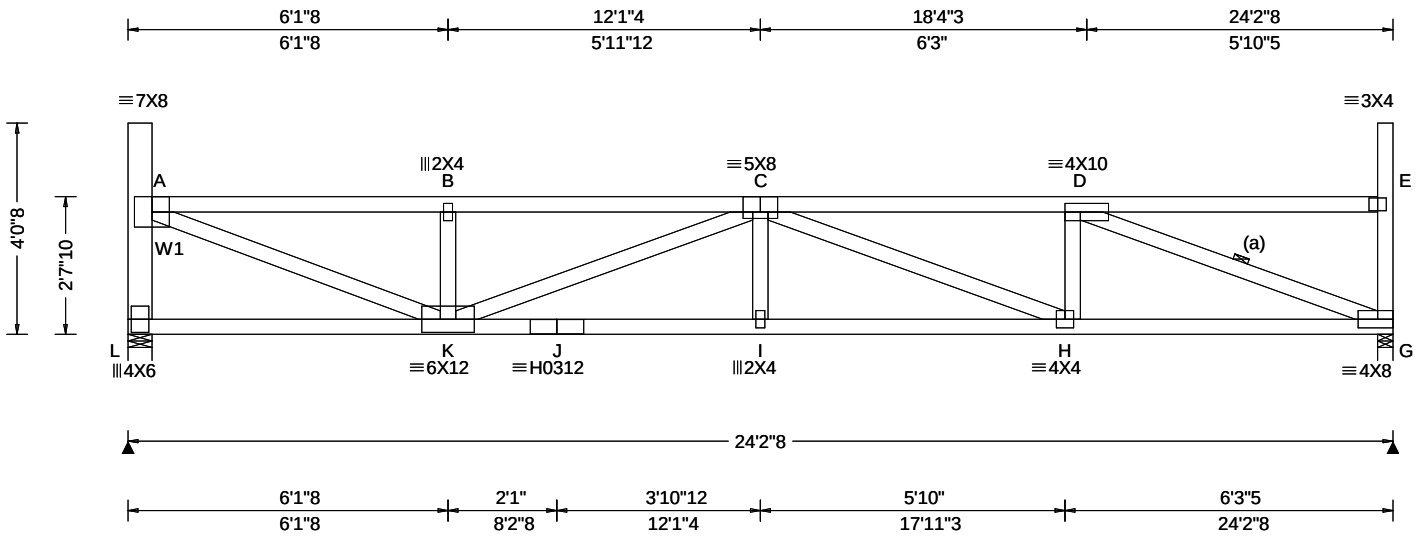
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34839 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T30	Cust: R 9316 JRef:1Xf493160006 T178 DrwNo: 119.22.1314.44043 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.242	I	999	360
VERT(CL): 0.414	I	700	240
HORZ(LL): 0.048	G	-	-
HORZ(TL): 0.083	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.605
Max BC CSI: 0.541
Max Web CSI: 0.745

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/610	/86	/123
G	1432	/-	/-	/615	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	187	- 2989	C - D	183	- 3014
B - C	186	- 2985			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3862	- 269	I - H	3862	- 269
J - I	3862	- 269	H - G	2930	- 189

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	101	- 1281	C - H	98	- 915
A - K	3035	- 205	H - D	677	0
B - K	80	- 384	D - G	205	- 3107
K - C	98	- 943			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.17". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

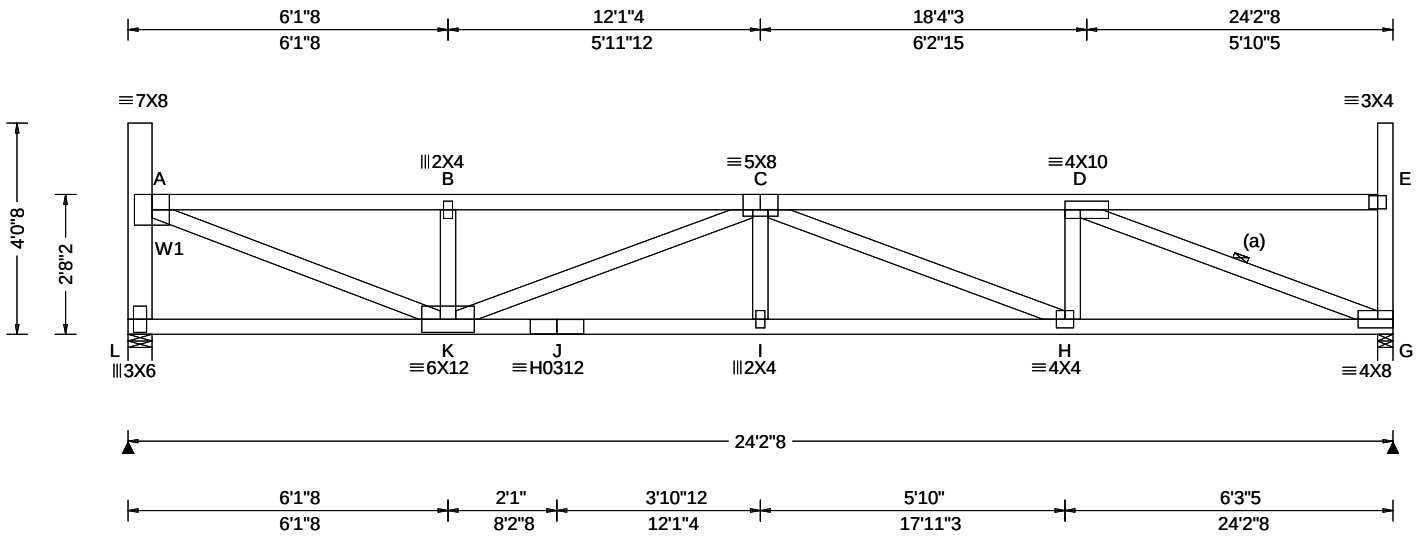
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34840 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T31	Cust: R 9316 JRef:1Xf493160006 T185 DrwNo: 119.22.1314.45777 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.234 I	999	360
VERT(CL):	0.401 I	724	240
HORZ(LL):	0.047 G	-	-
HORZ(TL):	0.081 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.595
Max BC CSI: 0.536
Max Web CSI: 0.733

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1421	/-	/-	/610	/86	/122
G	1432	/-	/-	/615	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	184	- 2938	C - D	180	- 2962
B - C	183	- 2933			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3795	- 266	I - H	3795	- 266
J - I	3795	- 266	H - G	2880	- 187

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	101	- 1281	C - H	96	- 900
A - K	2989	- 202	H - D	677	0
B - K	80	- 385	D - G	202	- 3061
K - C	96	- 928			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.36	14.50	3.50
23.92	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

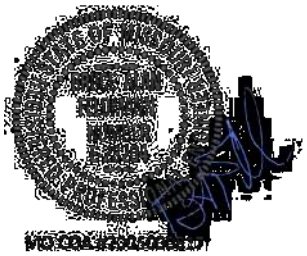
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.17". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

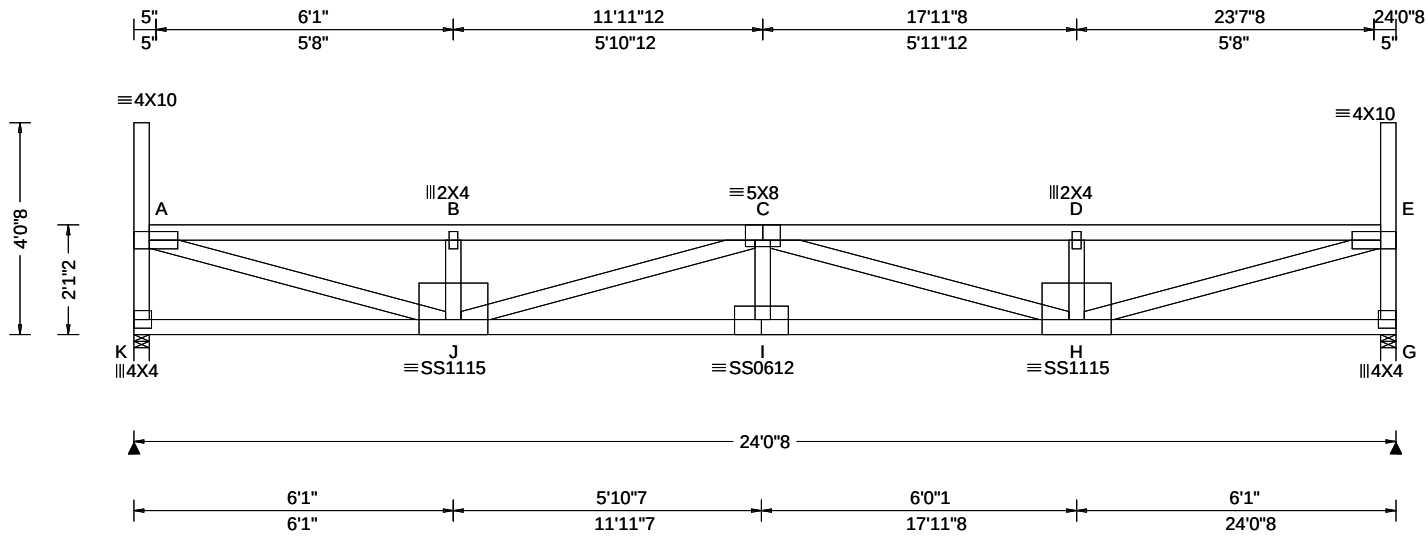
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34841 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T33	Cust: R 9316 JRef:1Xf493160006 T191 DrwNo: 119.22.1314.49357 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.398	I	725	360
VERT(CL): 0.682	I	423	240
HORZ(LL): 0.059	A	-	-
HORZ(TL): 0.100	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.868
Max BC CSI: 0.652
Max Web CSI: 0.944

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1421	/-	/-	/612	/86	/139
G	1421	/-	/-	/612	/86	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	255	- 3812	C - D	254	- 3811
B - C	254	- 3807	D - E	255	- 3816

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	4930	- 321	I - H	4930	- 321

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	99	- 1285	C - H	139	- 1169
A - J	3844	- 256	H - E	3849	- 257
J - C	143	- 1174	E - G	99	- 1285

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.95	33.87	4.20
23.75	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

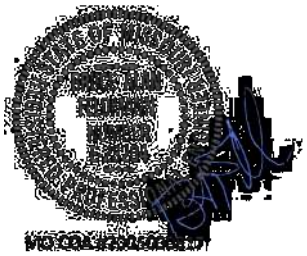
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.40" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

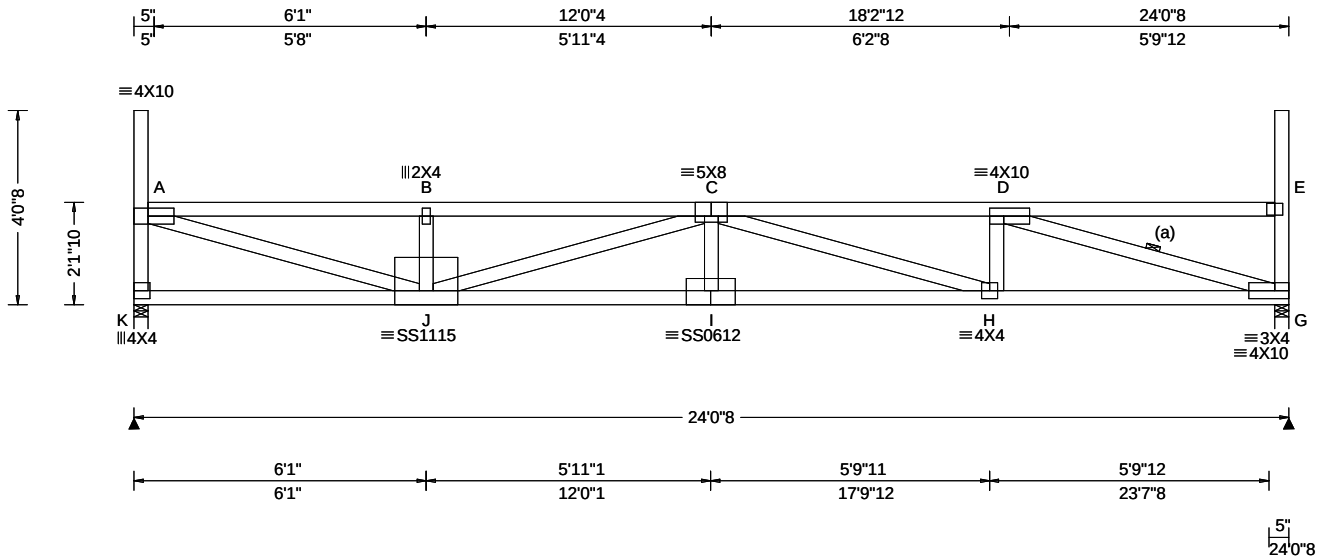
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34842 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T34	Cust: R 9316 JRef:1Xf493160006 T200 DrwNo: 119.22.1314.50930 / BAF 04/29/2022	



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.371	I	776	360
VERT(CL): 0.637	I	453	240
HORZ(LL): 0.059	G	-	-
HORZ(TL): 0.102	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.854
Max BC CSI: 0.639
Max Web CSI: 0.925

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1422	/-	/-	/612	/86	/138
G	1422	/-	/-	/612	/86	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	250	- 3732	C - D	247	- 3757
B - C	249	- 3727			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	4822	- 317	H - G	3652	- 214
I - H	4822	- 317			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	100	- 1286	C - H	138	- 1118
A - J	3770	- 250	H - D	672	- 2
J - C	141	- 1147	D - G	247	- 3771

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.37" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

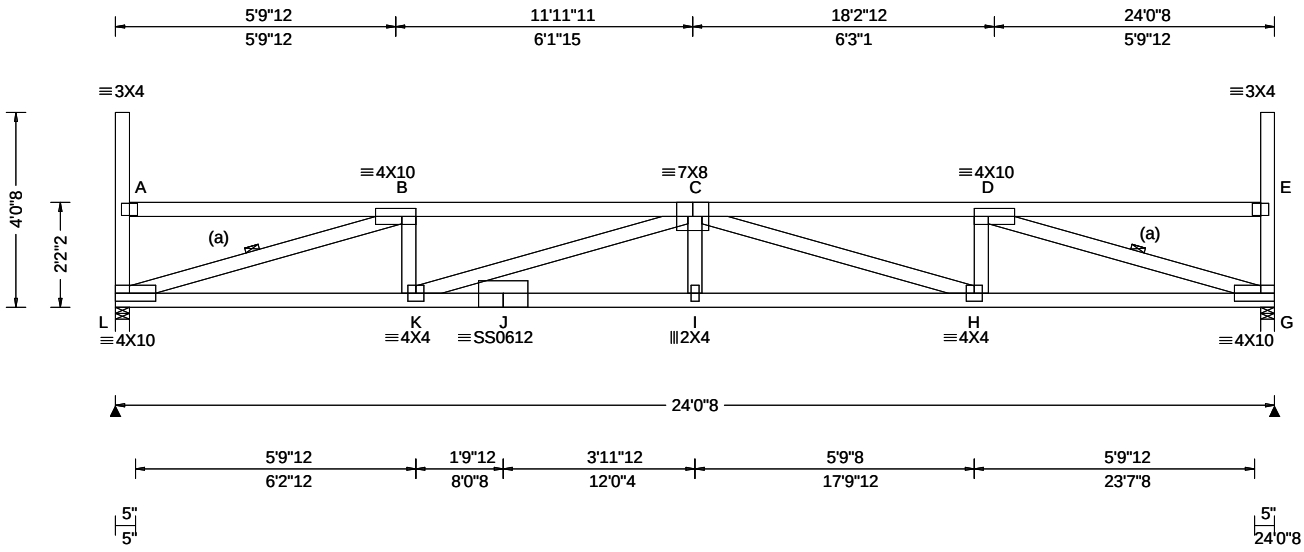
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34843 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T35	Cust: R 9316 JRef:1Xf493160006 T205 DrwNo: 119.22.1314.52577 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.346 I	832	360
VERT(CL):	0.594 I	486	240
HORZ(LL):	0.074 G	-	-
HORZ(TL):	0.126 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.608
Max BC CSI: 0.612
Max Web CSI: 0.770

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/612	/86	/136
G	1420	/-	/-	/612	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	240	- 3672	C - D	240	- 3671

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3569	- 352	I - H	4710	- 310
K - J	4710	- 310	H - G	3568	- 209
J - I	4710	- 310			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	241	- 3694	C - H	134	- 1093
B - K	673	- 1	H - D	672	- 1
K - C	136	- 1092	D - G	240	- 3693

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.35" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

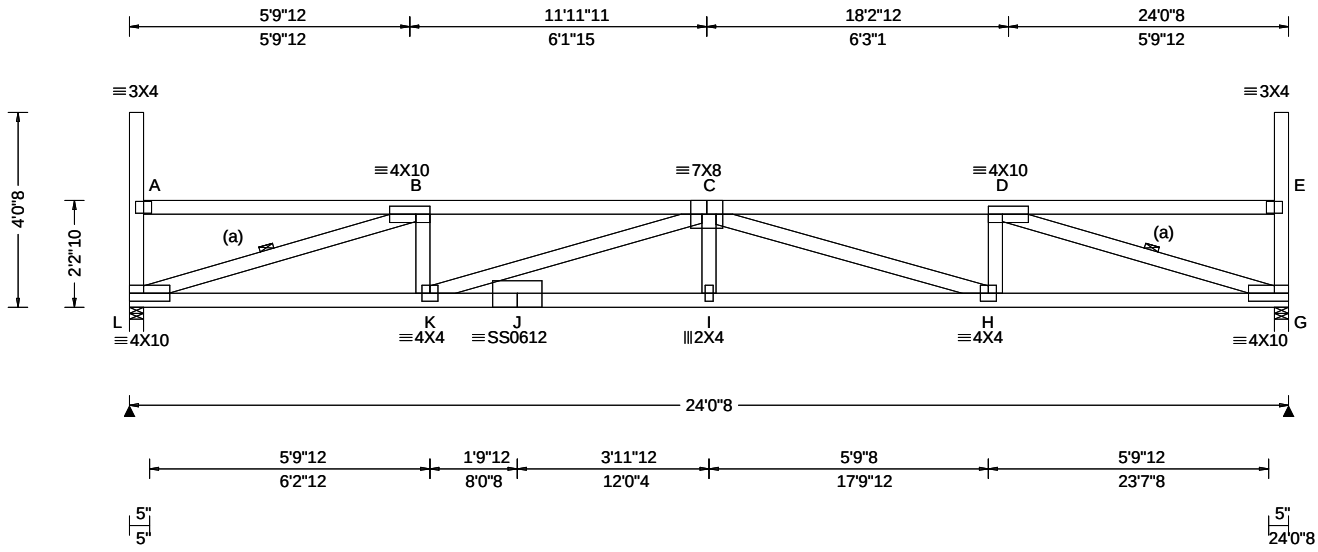
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34844 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T36	Cust: R 9316 JRef:1Xf493160006 T213 DrwNo: 119.22.1314.56073 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.89 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.332 I	868	360
VERT(CL):	0.570 I	506	240
HORZ(LL):	0.072 G	-	-
HORZ(TL):	0.123 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.588
Max BC CSI: 0.603
Max Web CSI: 0.757

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/612	/86	/135
G	1420	/-	/-	/612	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	236	-3595	C - D	236	-3594

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3494	-346	I - H	4610	-305
K - J	4610	-305	H - G	3493	-207
J - I	4610	-305			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	236	-3624	C - H	131	-1071
B - K	673	-1	H - D	672	-1
K - C	133	-1070	D - G	236	-3623

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.82	29.72	4.79
23.75	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

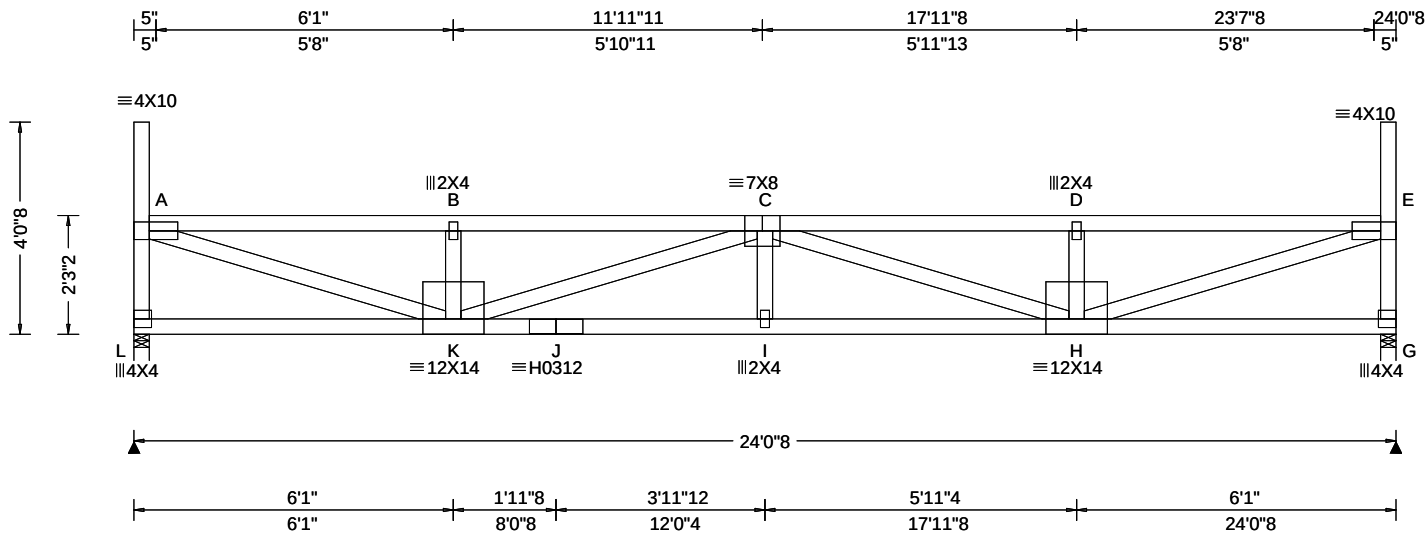
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34845 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T37	Cust: R 9316 JRef:1Xf493160006 T204 DrwNo: 119.22.1314.57703 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.93 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.336 I	858	360
VERT(CL):	0.576 I	500	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.093 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.812
Max BC CSI: 0.594
Max Web CSI: 0.872

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/612	/86	/134
G	1420	/-	/-	/612	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	213	-3499	C - D	212	-3493
B - C	212	-3494	D - E	213	-3498

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4514	-298	I - H	4514	-298
J - I	4514	-298			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	-1286	C - H	124	-1076
A - K	3554	-235	H - E	3553	-235
K - C	128	-1075	E - G	100	-1286

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.78	28.34	5.03
23.75	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

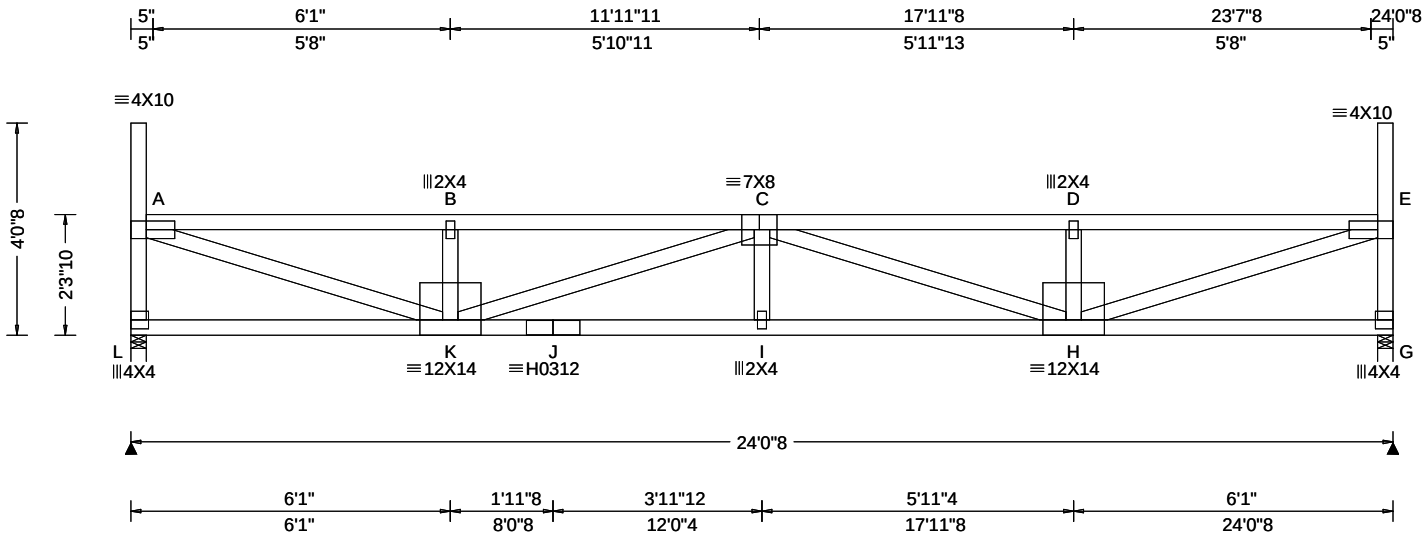
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34846 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T38	Cust: R 9316 JRef:1Xf493160006 T209 DrwNo: 119.22.1314.59340 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.97 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.323	I	893	360
VERT(CL): 0.554	I	521	240
HORZ(LL): 0.053	A	-	-
HORZ(TL): 0.091	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.799
Max BC CSI: 0.585
Max Web CSI: 0.856

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/612	/86	/133
G	1420	/-	/-	/612	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	209	-3429	C - D	208	-3423
B - C	208	-3423	D - E	209	-3428

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4422	-293	I - H	4422	-293
J - I	4422	-293			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	-1287	C - H	112	-1055
A - K	3488	-230	H - E	3487	-231
K - C	116	-1054	E - G	100	-1286

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.74	26.95	5.28
23.75	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

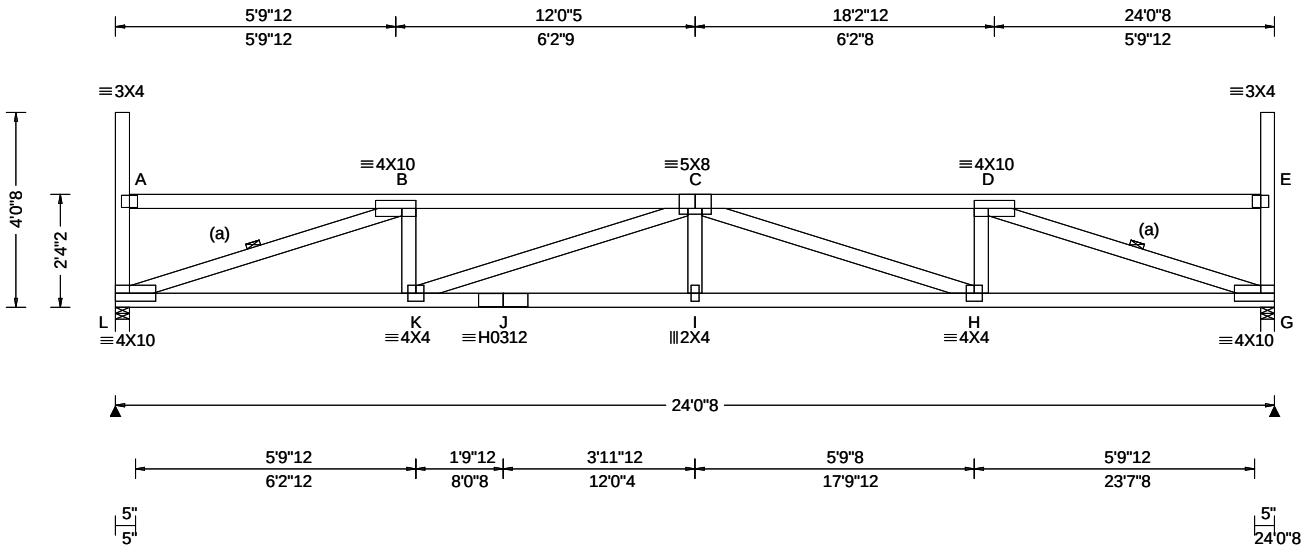
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34847 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T39	Cust: R 9316 JRef:1Xf493160006 T199 DrwNo: 119.22.1315.01013 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.296 I	975	360
VERT(CL):	0.507 I	569	240
HORZ(LL):	0.068 G	-	-
HORZ(TL):	0.116 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.542
Max BC CSI: 0.578
Max Web CSI: 0.723

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/612	/87	/132
G	1422	/-	/-	/612	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	202	-3386	C - D	202	-3384

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3291	-310	I - H	4342	-294
K - J	4342	-294	H - G	3290	-201
J - I	4342	-294			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	226	-3436	C - H	115	-1016
B - K	674	0	H - D	674	0
K - C	117	-1015	D - G	226	-3435

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.70	25.57	5.57
23.75	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

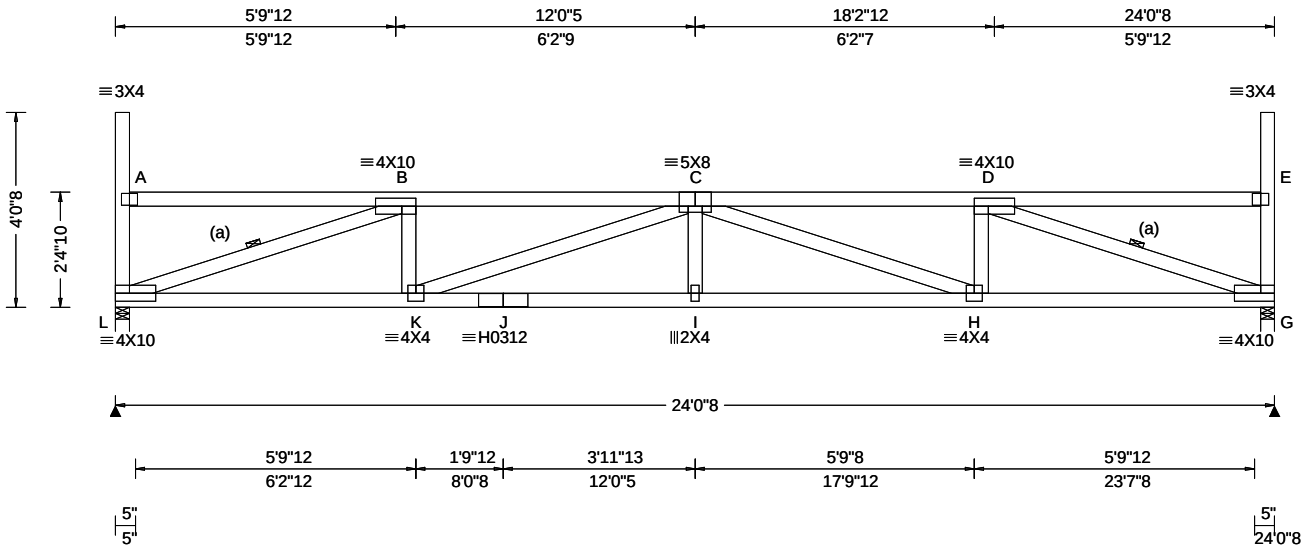
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34848 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T40	Cust: R 9316 JRef:1Xf493160006 T211 DrwNo: 119.22.1315.02670 / BAF 04/29/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.285 I	999	360
VERT(CL):	0.488 I	590	240
HORZ(LL):	0.066 G	-	-
HORZ(TL):	0.114 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.529
Max BC CSI: 0.571
Max Web CSI: 0.713

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/612	/87	/131
G	1422	/-	/-	/612	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	199	-3320	C - D	199	-3319

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3227	-305	I - H	4257	-290
K - J	4257	-290	H - G	3226	-199
J - I	4257	-290			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	222	-3377	C - H	113	-998
B - K	674	0	H - D	674	0
K - C	114	-996	D - G	222	-3376

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

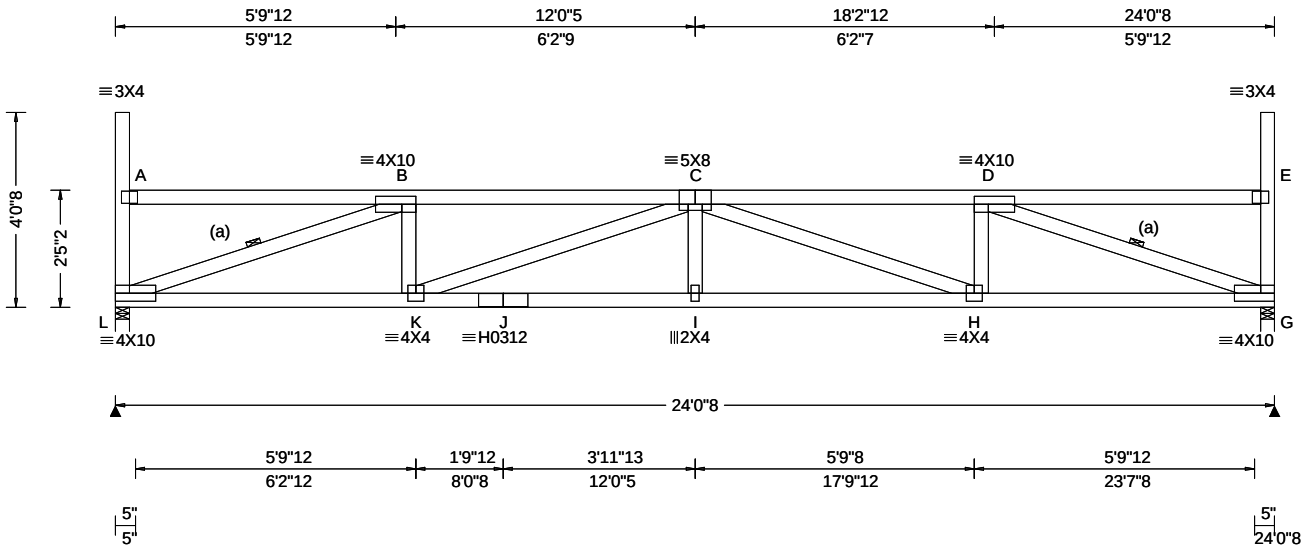
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34849 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T41	Cust: R 9316 JRef:1Xf493160006 T201 DrwNo: 119.22.1315.04263 / BAF 04/29/2022	



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.275	I	999	360
VERT(CL): 0.471	I	612	240
HORZ(LL): 0.065	G	-	-
HORZ(TL): 0.112	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.516
Max BC CSI: 0.565
Max Web CSI: 0.703

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/612	/87	/129
G	1422	/-	/-	/612	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	195	- 3257	C - D	196	- 3255

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3166	- 320	I - H	4175	- 286
K - J	4175	- 286	H - G	3164	- 197
J - I	4175	- 286			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	219	- 3320	C - H	118	- 980
B - K	674	- 1	H - D	674	0
K - C	120	- 979	D - G	218	- 3319

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.27" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

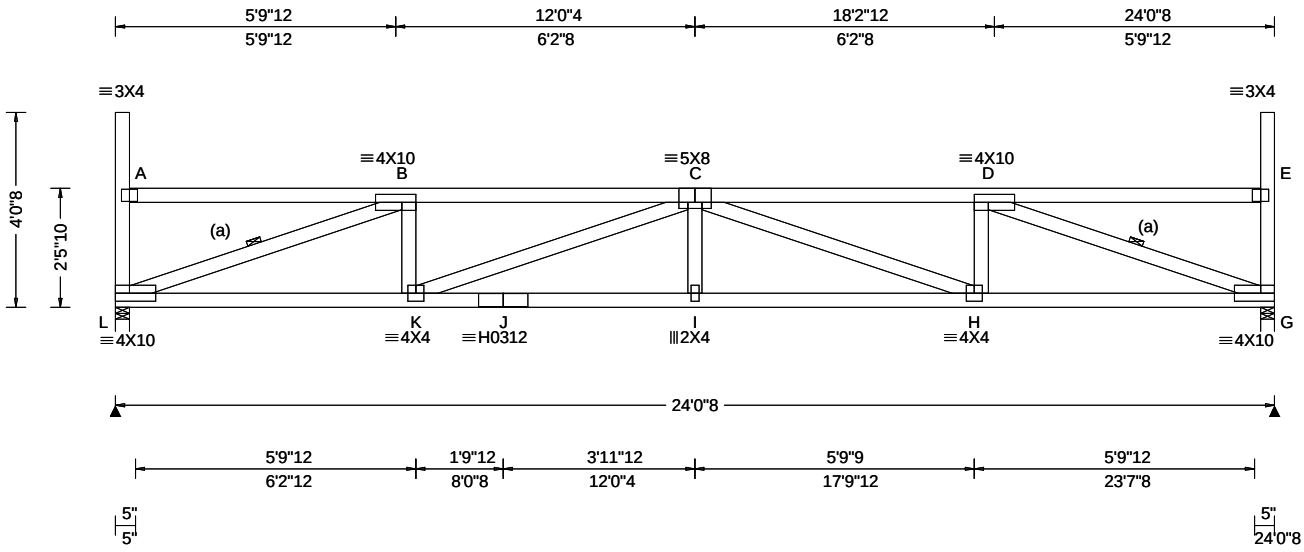
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34850 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T42	Cust: R 9316 JRef:1Xf493160006 T195 DrwNo: 119.22.1315.05910 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.265 I	999	360
VERT(CL):	0.454 I	635	240
HORZ(LL):	0.064 G	-	-
HORZ(TL):	0.110 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.510
Max BC CSI: 0.559
Max Web CSI: 0.693

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/612	/87	/128
G	1422	/-	/-	/612	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	192	- 3196	C - D	193	- 3195

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3106	- 315	I - H	4096	- 282
K - J	4096	- 282	H - G	3105	- 195
J - I	4096	- 282			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	215	- 3266	C - H	116	- 963
B - K	675	0	H - D	674	0
K - C	117	- 962	D - G	215	- 3265

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.57	21.42	5.16
23.75	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

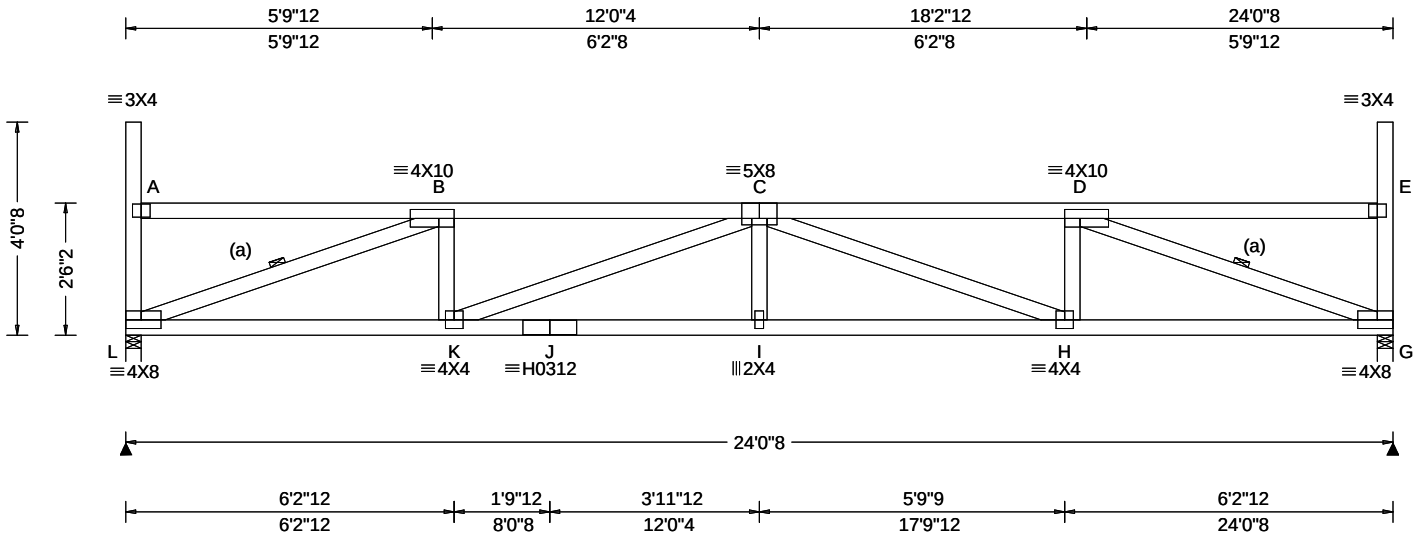
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34851 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T43	Cust: R 9316 JRef:1Xf493160006 T198 DrwNo: 119.22.1315.07633 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.256	I	999	360
VERT(CL): 0.438	I	658	240
HORZ(LL): 0.063	G	-	-
HORZ(TL): 0.108	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.507
Max BC CSI: 0.553
Max Web CSI: 0.684

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/87	/127
G	1422	/-	/-	/611	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	211	-3137	C - D	211	-3136

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3049	-310	I - H	4020	-278
K - J	4020	-278	H - G	3048	-192
J - I	4020	-278			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	212	-3213	C - H	113	-947
B - K	675	0	H - D	674	0
K - C	114	-946	D - G	212	-3212

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

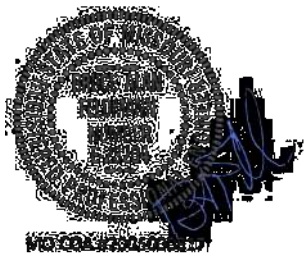
Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.53	20.04	4.83
23.75	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

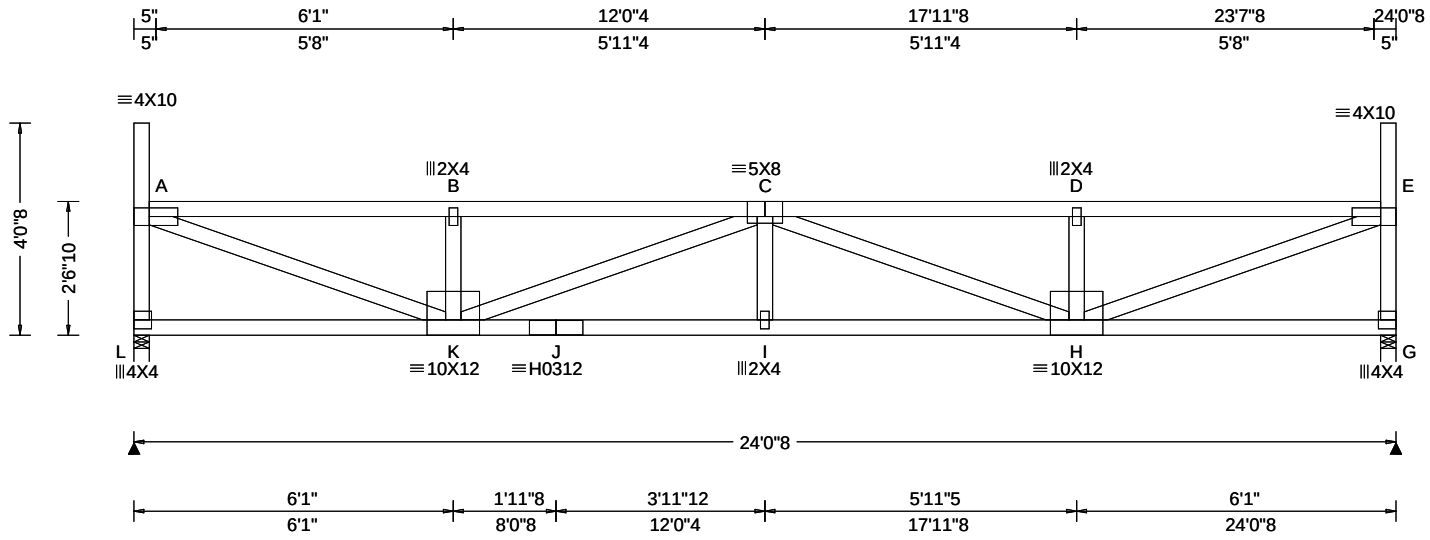
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

MQ COA #3005000817

Building 8

SEQN: 34852 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T44	Cust: R 9316 JRef:1Xf493160006 T202 DrwNo: 119.22.1315.09613 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.260 I	999	360
VERT(CL):	0.445 I	647	240
HORZ(LL):	0.048 A	-	-
HORZ(TL):	0.082 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.642
Max BC CSI: 0.540
Max Web CSI: 0.774

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/87	/126
G	1422	/-	/-	/611	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	211	-3063	C - D	211	-3057
B - C	211	-3058	D - E	211	-3062

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3947	-272	I - H	3947	-272
J - I	3947	-272			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	102	-1290	C - H	107	-952
A - K	3153	-209	H - E	3152	-210
B - K	79	-383	D - H	80	-384
K - C	110	-951	E - G	102	-1290

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.49	18.65	4.50
23.75	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

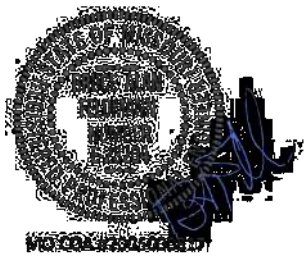
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

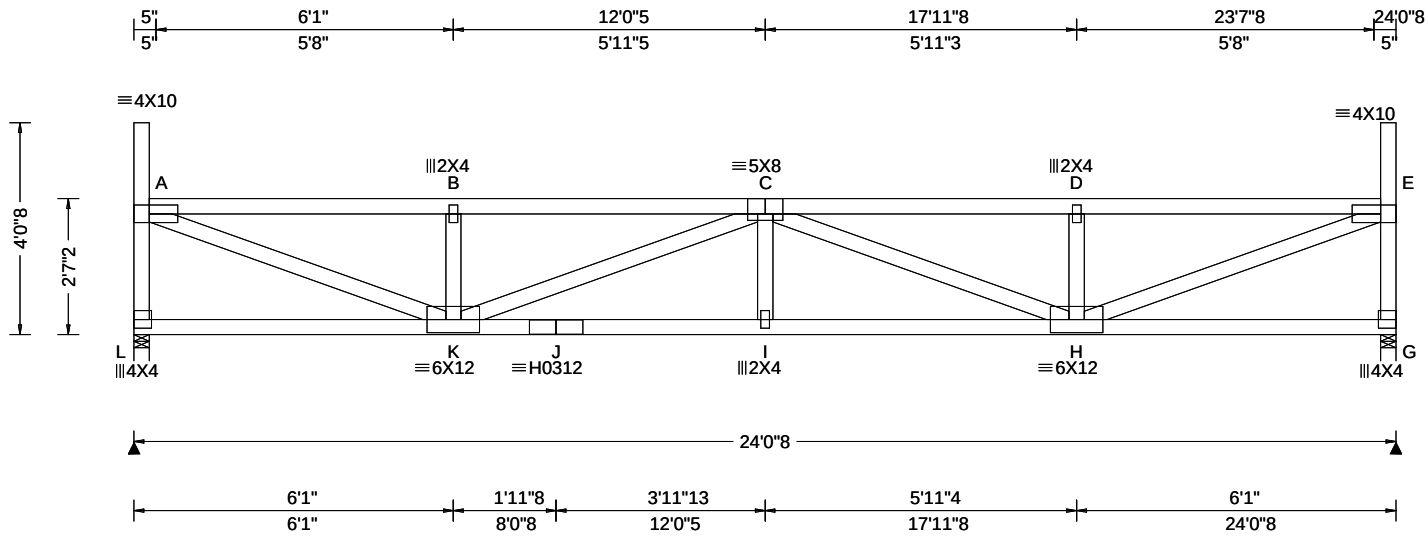
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

MO COA #2005000817

Building 8

SEQN: 34853 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T45	Cust: R 9316 JRef:1Xf493160006 T196 DrwNo: 119.22.1315.11443 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.251 I	999	360
VERT(CL):	0.430 I	670	240
HORZ(LL):	0.047 A	-	-
HORZ(TL):	0.081 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.628
Max BC CSI: 0.535
Max Web CSI: 0.762

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/87	/125
G	1422	/-	/-	/611	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	208	- 3009	C - D	207	- 3003
B - C	208	- 3004	D - E	208	- 3008

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3876	- 269	I - H	3876	- 269
J - I	3876	- 269			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	102	- 1290	C - H	105	- 937
A - K	3104	- 206	D - H	80	- 385
B - K	80	- 385	H - E	3102	- 207
K - C	108	- 935	E - G	102	- 1290

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.45	17.27	4.16
23.75	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

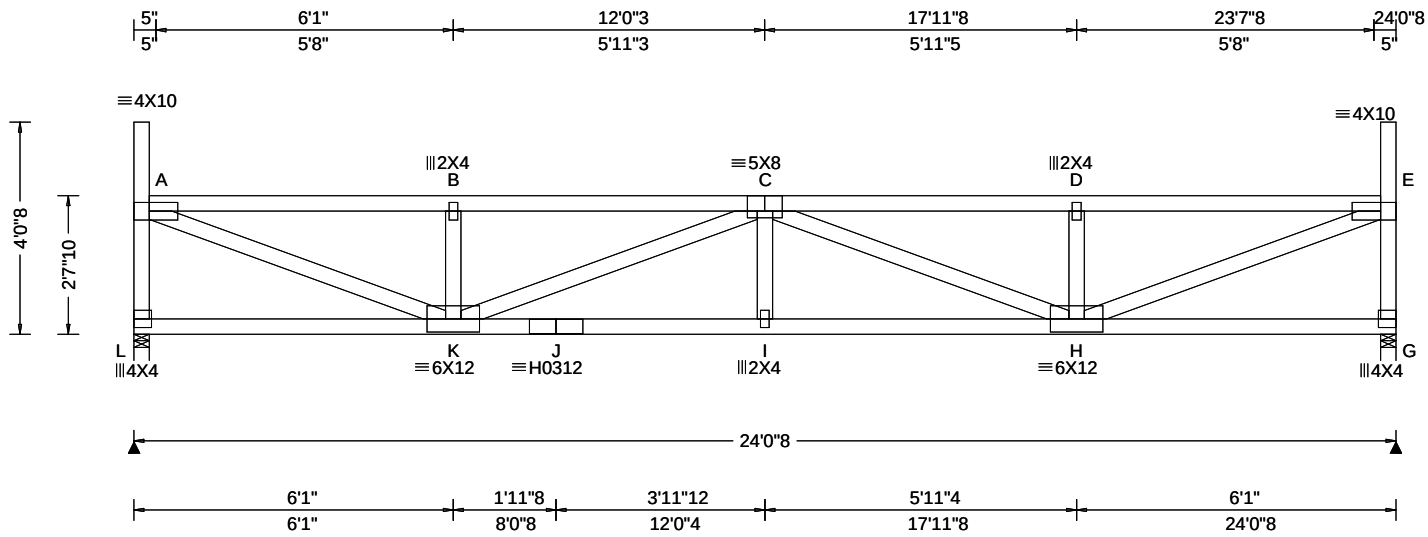
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34854 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T46	Cust: R 9316 JRef:1Xf493160006 T207 DrwNo: 119.22.1315.13107 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.243 I	999	360
VERT(CL):	0.416 I	692	240
HORZ(LL):	0.046 A	-	-
HORZ(TL):	0.080 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.618
Max BC CSI: 0.528
Max Web CSI: 0.750

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/88	/123
G	1422	/-	/-	/611	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	205	- 2956	C - D	204	- 2951
B - C	204	- 2951	D - E	205	- 2956

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3808	- 265	I - H	3808	- 265
J - I	3808	- 265			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	102	- 1291	C - H	103	- 921
A - K	3055	- 203	H - E	3055	- 203
B - K	80	- 386	D - H	80	- 387
K - C	105	- 921	E - G	102	- 1290

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.41	15.89	3.83
23.75	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

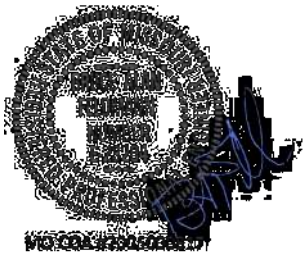
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.17". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

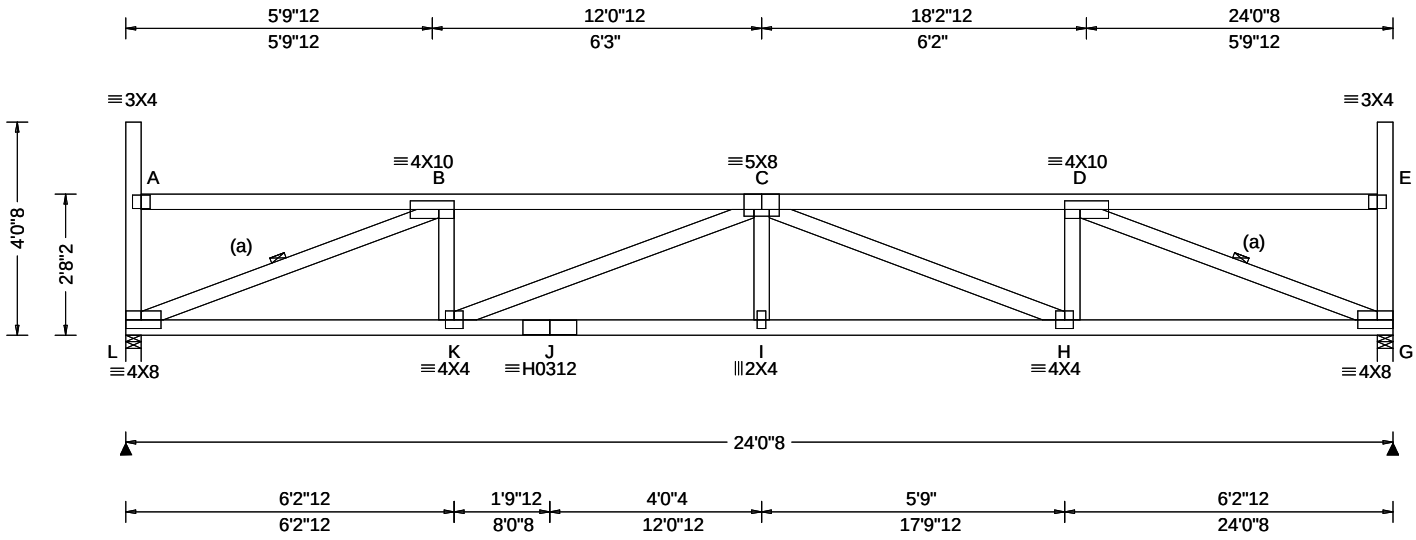
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34855 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T47	Cust: R 9316 JRef:1Xf493160006 T203 DrwNo: 119.22.1315.14703 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.224 I	999	360
VERT(CL):	0.383 I	752	240
HORZ(LL):	0.058 G	-	-
HORZ(TL):	0.100 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.501
Max BC CSI: 0.534
Max Web CSI: 0.652

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/88	/122
G	1422	/-	/-	/611	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	199	- 2923	C - D	199	- 2920

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	2841	- 291	I - H	3742	- 264
K - J	3742	- 264	H - G	2838	- 185
J - I	3742	- 264			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	200	- 3024	C - H	104	- 890
B - K	673	0	H - D	676	0
K - C	105	- 885	D - G	200	- 3020

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

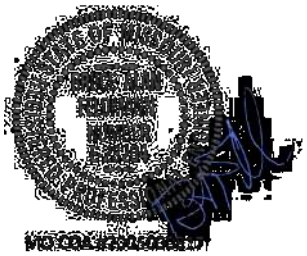
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.22" DL: 0.16". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

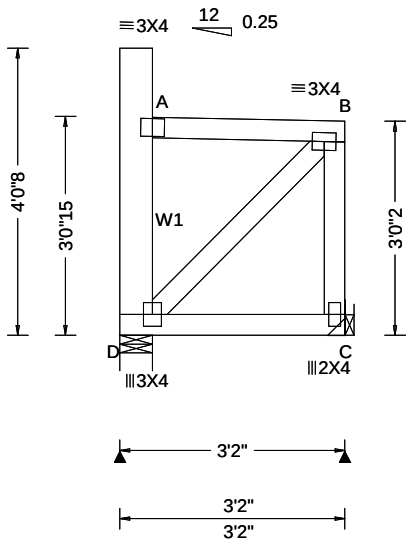
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34941 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48	Cust: R 9316 JRef:1Xf493160006 T197 DrwNo: 119.22.1315.16207 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.71 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.001	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.139
Max BC CSI: 0.103
Max Web CSI: 0.033

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	160	/-	/-	/95	/53	/78
C	188	/-	/-	/134	/47	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

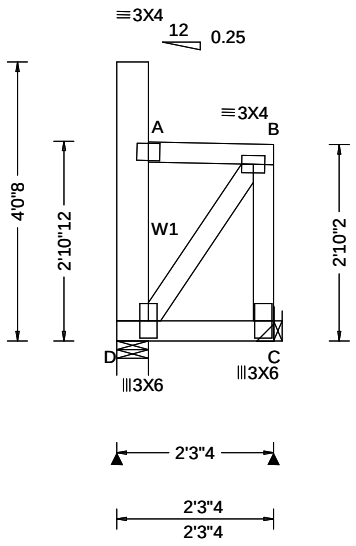
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

MQ COA #2005000817

SEQN: 34857 MONO FROM:	Ply: 1 Qty: 16	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T49	Cust: R 9316 JRef:1Xf493160006 T217 DrwNo: 119.22.1315.18983 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.065
Max BC CSI: 0.052
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	107	/-	/-	/87	/78	/80
C	133	/-	/-	/136	/61	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

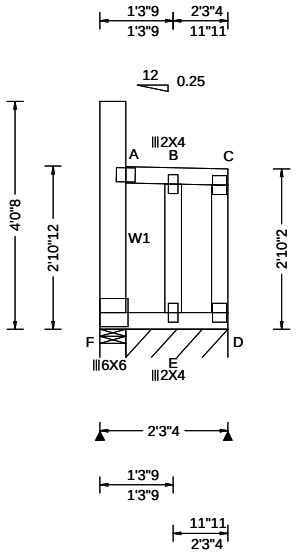
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34858 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T50	Cust: R 9316 JRef:1Xf493160006 T138 DrwNo: 119.22.1315.20490 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	A	999	360
VERT(CL): 0.009	A	999	240
HORZ(LL): 0.124	B	-	-
HORZ(TL): 0.141	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.111
Max BC CSI: 0.255
Max Web CSI: 0.115

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	33	/-11	/-	/118	/150	/92
D*	128	/-	/-	/137	/70	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 21.7 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

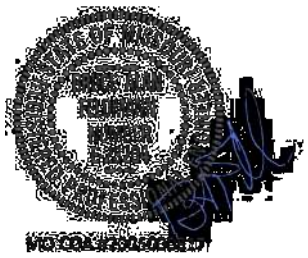
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

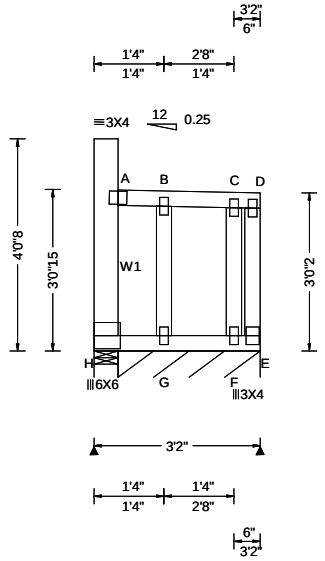
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34859 GABL FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T51	Cust: R 9316 JRef:1Xf493160006 T169 DrwNo: 119.22.1315.21903 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.71 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	A	999	360
VERT(CL): 0.010	A	999	240
HORZ(LL): 0.122	C	-	-
HORZ(TL): 0.143	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.105
Max BC CSI: 0.293
Max Web CSI: 0.131

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	41	/-	/-	/118	/131	/90
E*	113	/-	/-	/96	/44	/-

Wind reactions based on MWFRS
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 32.5 Min Req = -
Bearings H & H are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

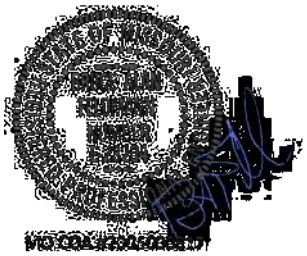
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

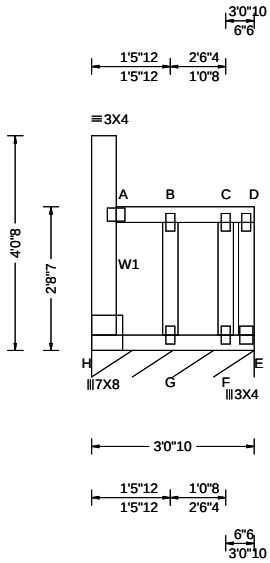
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34860 GABL FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T52	Cust: R 9316 JRef:1Xf493160006 T132 DrwNo: 119.22.1315.23363 / BAF 04/29/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.007 A 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.009 A 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.115 A - -
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.134 A - -
NCBCLL: 0.00	Mean Height: 22.37 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.115
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.323
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.142
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E*	109	/-	/-	/46	/5	/30

Wind reactions based on MWFRS
E Brg Wid = 36.6 Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.34	13.63	2.59

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

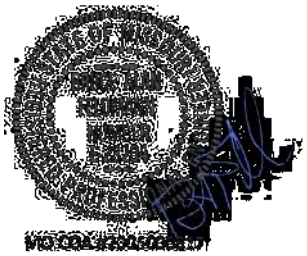
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

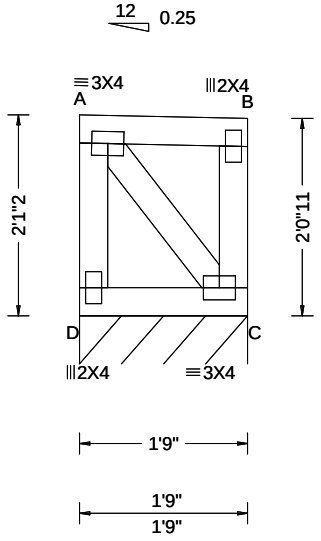
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34861 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE01	Cust: R 9316 JRef:1Xf493160006 T188 DrwNo: 119.22.1303.39035 / NDW 04/29/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.08 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.032 Max Web CSI: 0.021 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 21.0 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

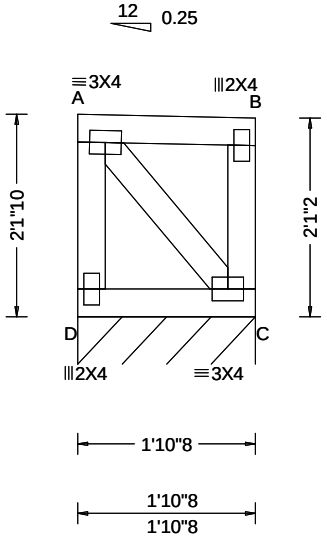
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34862 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE02	Cust: R 9316 JRef:1Xf493160006 T189 DrwNo: 119.22.1303.38673 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.12 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.022

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/18

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

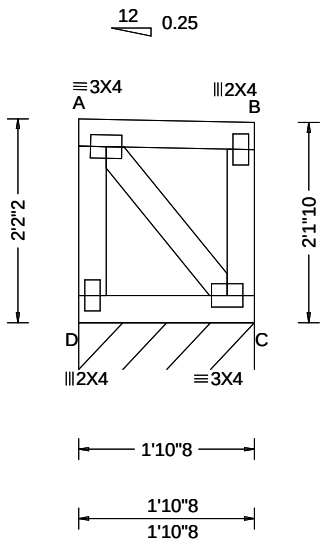
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34863 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE03	Cust: R 9316 JRef:1Xf493160006 T190 DrwNo: 119.22.1303.39008 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.16 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.023

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

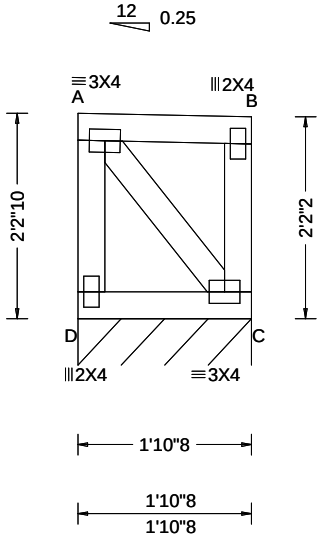
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34864 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE04	Cust: R 9316 JRef:1Xf493160006 T192 DrwNo: 119.22.1303.38970 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.20 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.024

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

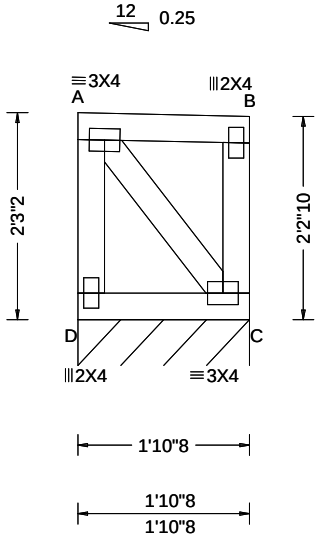
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34865 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE05	Cust: R 9316 JRef:1Xf493160006 T215 DrwNo: 119.22.1303.38288 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.24 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.025

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

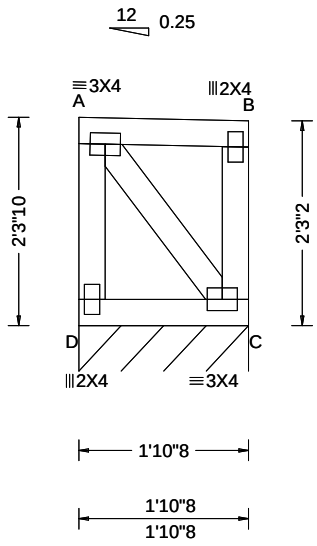
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34866 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE06	Cust: R 9316 JRef:1Xf493160006 T219 DrwNo: 119.22.1303.37957 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.28 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.026

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

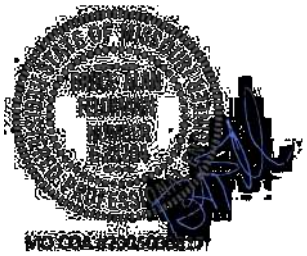
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

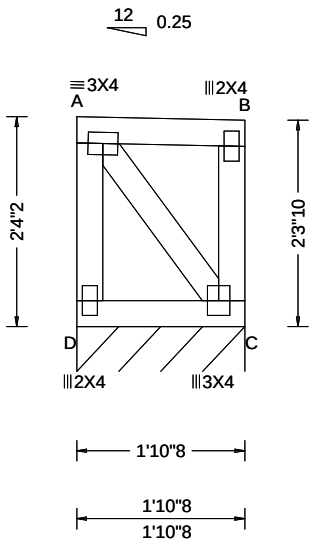
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34867 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE07	Cust: R 9316 JRef:1Xf493160006 T220 DrwNo: 119.22.1303.38498 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.32 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.027

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

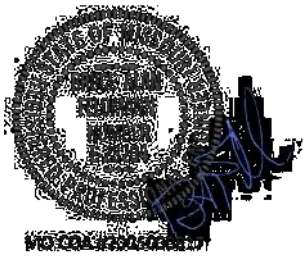
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

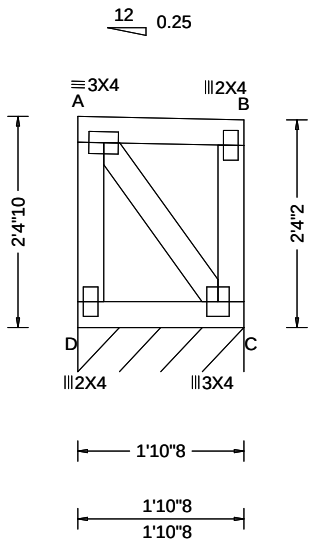
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34868 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE08	Cust: R 9316 JRef:1Xf493160006 T221 DrwNo: 119.22.1303.38480 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.028

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

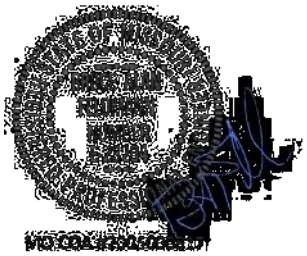
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

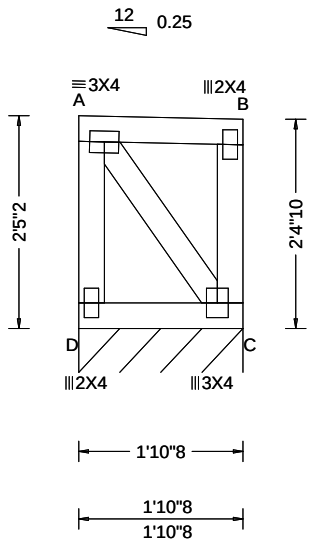
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34869 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE09	Cust: R 9316 JRef:1Xf493160006 T222 DrwNo: 119.22.1303.38548 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.41 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.029

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/5	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

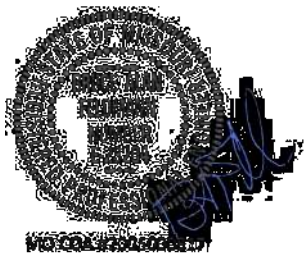
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

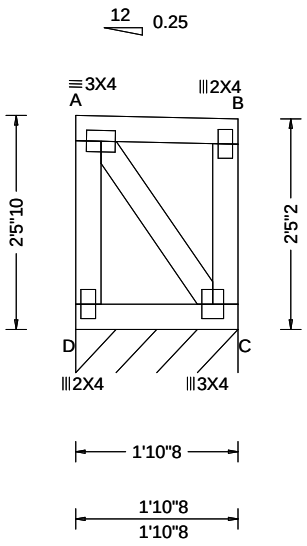
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

MO COA #2005000817

SEQN: 34870 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE10	Cust: R 9316 JRef:1Xf493160006 T223 DrwNo: 119.22.1303.38610 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.45 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.031

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

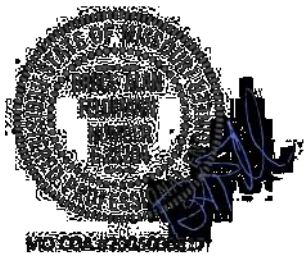
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

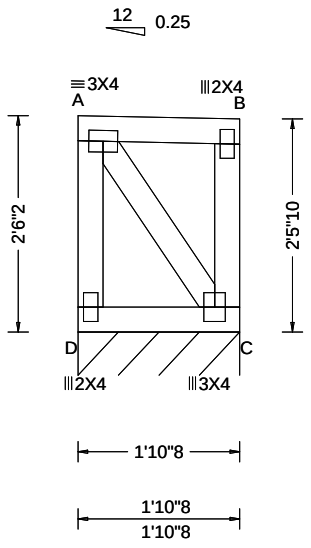
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34871 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE11	Cust: R 9316 JRef:1Xf493160006 T224 DrwNo: 119.22.1303.38831 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.49 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.032

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

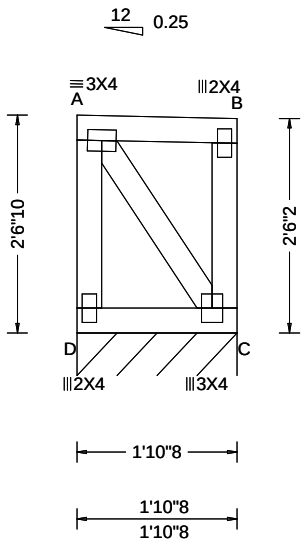
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34872 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE12	Cust: R 9316 JRef:1Xf493160006 T225 DrwNo: 119.22.1303.38286 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.033

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

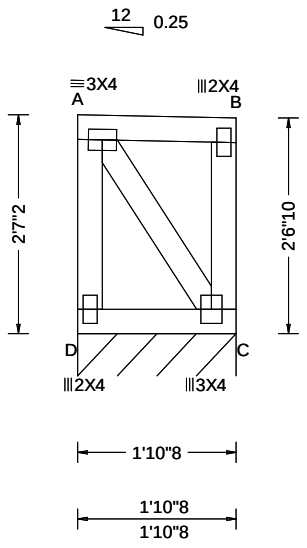
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34873 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE13	Cust: R 9316 JRef:1Xf493160006 T226 DrwNo: 119.22.1303.38382 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.57 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.035

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

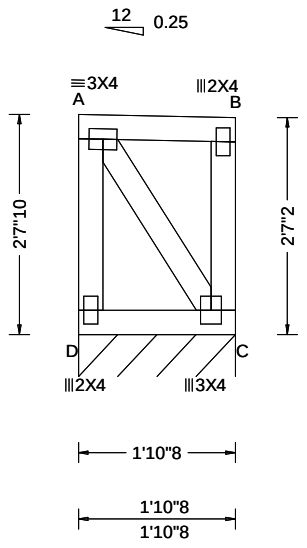
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34874 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE14	Cust: R 9316 JRef:1Xf493160006 T227 DrwNo: 119.22.1303.38037 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.62 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.036

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

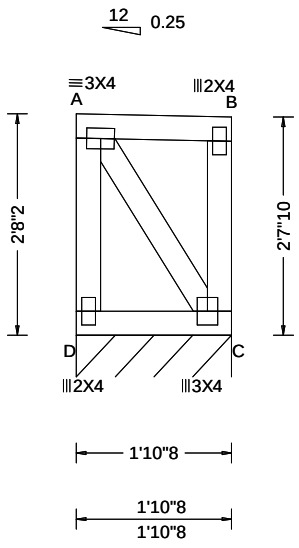
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34875 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE15	Cust: R 9316 JRef:1Xf493160006 T228 DrwNo: 119.22.1303.38790 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.66 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.037

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

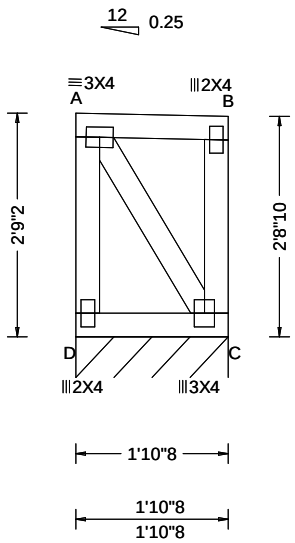
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34876 / MONO FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE16	Cust: R 9316 JRef:1Xf493160006 T251 DrwNo: 119.22.1303.37949 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.74 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.040

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

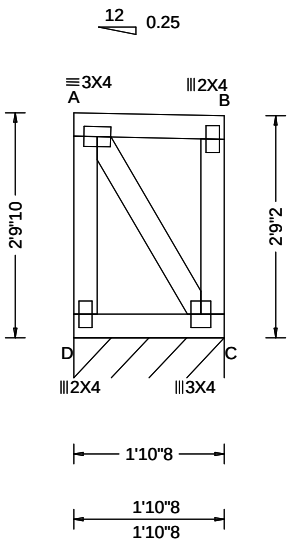
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34877 / MONO FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE17	Cust: R 9316 JRef:1Xf493160006 T252 DrwNo: 119.22.1303.38031 / NDW 04/29/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.78 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

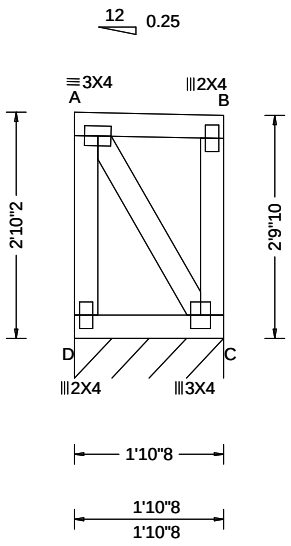
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34878 / MONO FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE18	Cust: R 9316 JRef:1Xf493160006 T253 DrwNo: 119.22.1303.37969 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.82 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

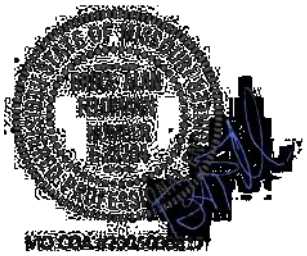
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

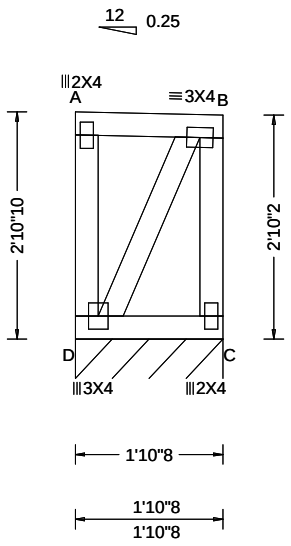
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34879 MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE19	Cust: R 9316 JRef:1Xf493160006 T254 DrwNo: 119.22.1315.24817 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): -0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.043

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/27

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

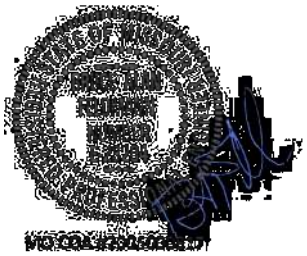
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

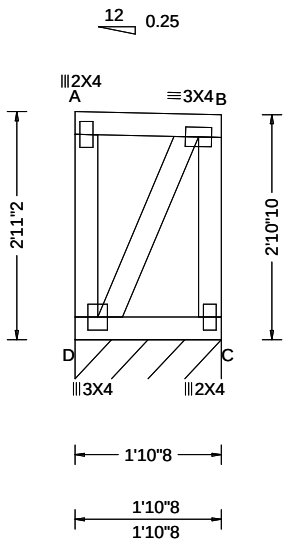
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34880 MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE20	Cust: R 9316 JRef:1Xf493160006 T255 DrwNo: 119.22.1315.26260 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.57 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): -0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.044

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

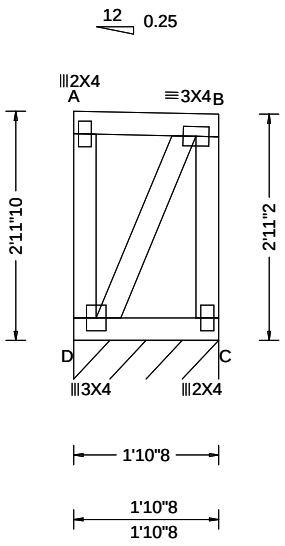
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34947 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE21	Cust: R 9316 JRef:1Xf493160006 T256 DrwNo: 119.22.1315.27633 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.62 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): -0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.046

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

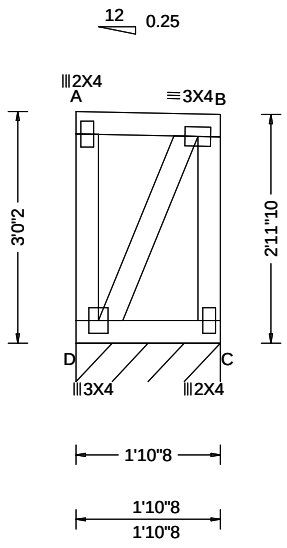
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34950 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE22	Cust: R 9316 JRef:1Xf493160006 T257 DrwNo: 119.22.1315.29143 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.66 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): -0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.047

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/29

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

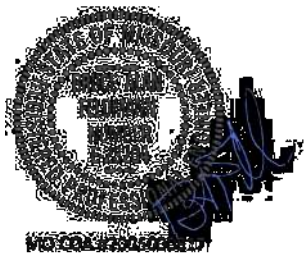
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

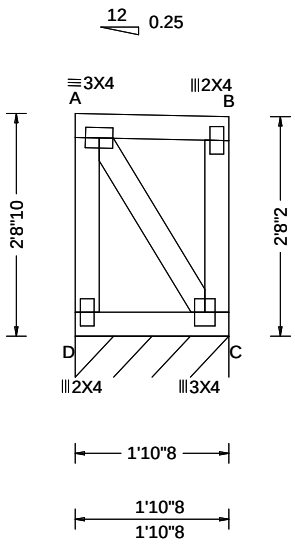
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

MO COA #2005000817

Building 8

SEQN: 34883 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE23	Cust: R 9316 JRef:1Xf493160006 T231 DrwNo: 119.22.1303.38644 / NDW 04/29/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -
NCBCLL: 0.00	Mean Height: 22.37 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.038
Spacing: 24.0 "	MWFRS Parallel Dist: > 2h	Rep Fac: Yes	Max Web CSI: 0.038
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 29.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/51	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

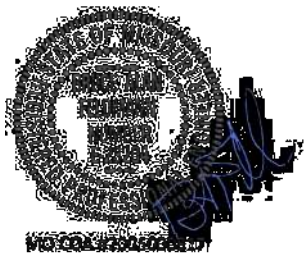
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

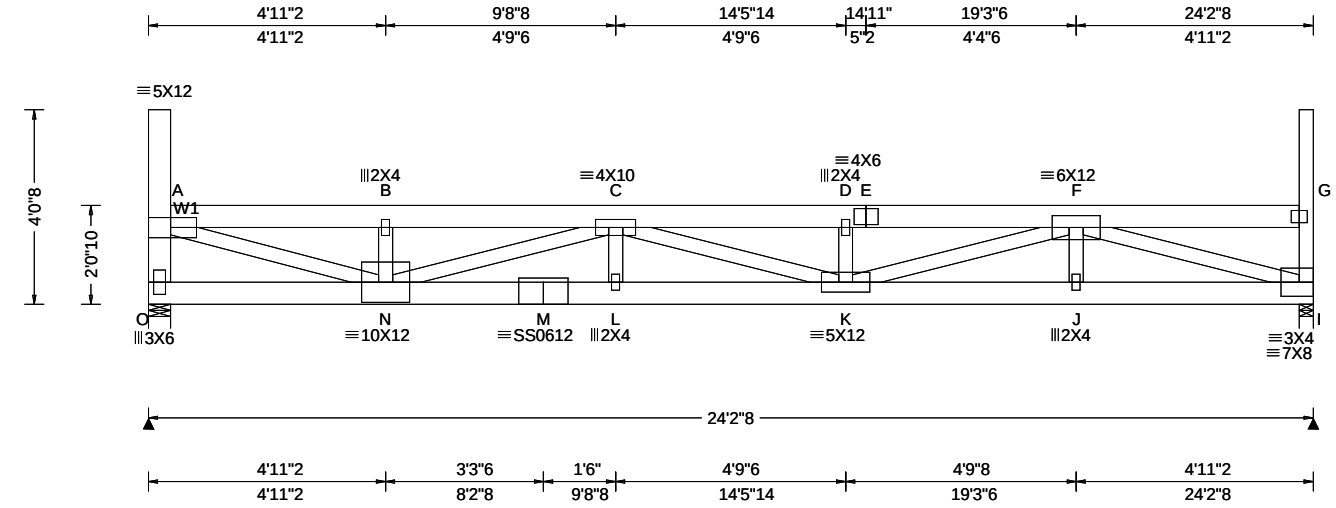
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

MO COA #2005000817

Building 8

SEQN: 34932 FLAT FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T16	Cust: R 9316 JRef:1Xf493160006 T3 DrwNo: 119.22.1314.17493 / BAF 04/29/2022	

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.265	D	999	360
VERT(CL): 0.454	D	640	240
HORZ(LL): 0.040	I	-	-
HORZ(TL): 0.069	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.208
Max BC CSI: 0.602
Max Web CSI: 0.839

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
O	2297 /-	/-	/-	/389	/-
I	2307 /-	/-	/-	/403	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 1.8 (Truss)
I Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	517	-2968	D - E	782	-4357
B - C	517	-2961	E - F	782	-4357
C - D	782	-4357			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	4351	-769	K - J	2959	-532
M - L	4351	-769	J - I	2959	-532
L - K	4351	-769			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	172	-1031	K - F	1473	-264
A - N	2934	-513	F - I	552	-3068
N - C	267	-1465			

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @11.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 23.92
BC: From 50 plf at 0.00 to 50 plf at 24.21
BC: 158 lb Conc. Load at 2.06, 4.06, 6.06, 8.06 10.06,18.06
BC: 160 lb Conc. Load at 12.06,14.06,16.06,20.06 22.06

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.99	34.38	4.14
23.92	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Additional Notes
Truss must be installed as shown with top chord up.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

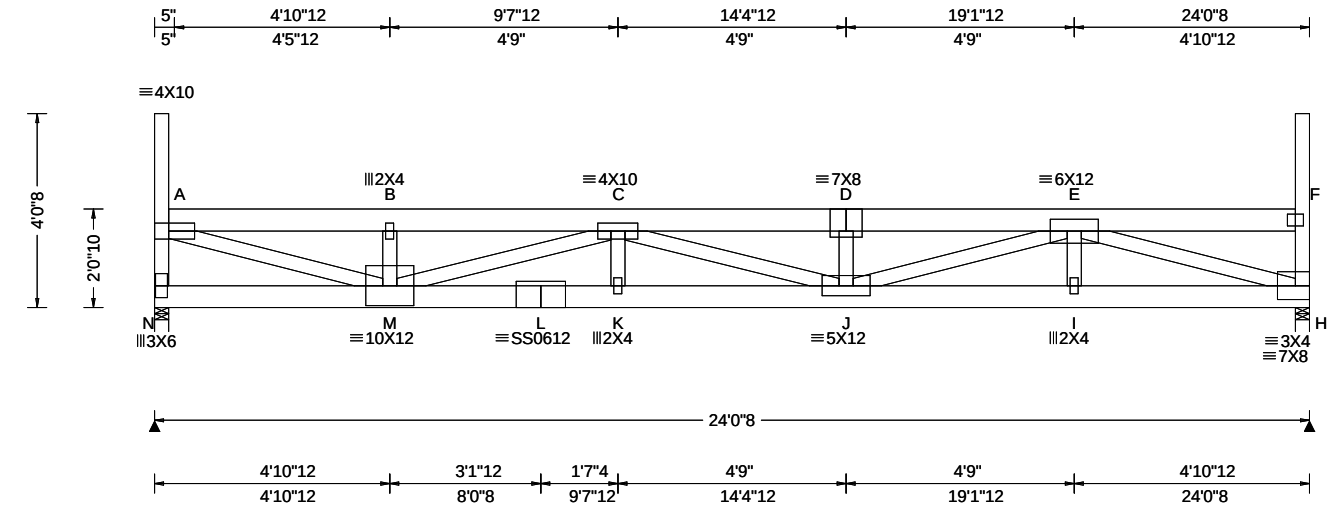
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34953 FLAT FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T32	Cust: R 9316 JRef:1Xf493160006 T7 DrwNo: 119.22.1314.47673 / BAF 04/29/2022	

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.259	D	999	360
VERT(CL): 0.443	D	650	240
HORZ(LL): 0.039	H	-	-
HORZ(TL): 0.067	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.204
Max BC CSI: 0.595
Max Web CSI: 0.824

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity	
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	2310	/-	/-	/-	/412	/-
H	2290	/-	/-	/-	/396	/-

Wind reactions based on MWFRS
N Brg Wid = 3.5 Min Req = 1.8 (Truss)
H Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	535	- 2942	C - D	777	- 4299
B - C	534	- 2935	D - E	777	- 4299

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	4300	- 783	J - I	2918	- 520
L - K	4300	- 783	I - H	2918	- 520
K - J	4300	- 783			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	180	- 1037	J - E	1456	- 271
A - M	2963	- 540	E - H	540	- 3028
M - C	263	- 1440			

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @11.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 23.75
BC: From 50 plf at 0.00 to 50 plf at 24.04
BC: 160 lb Conc. Load at 1.90, 3.90, 7.90, 9.90 11.90,13.90,21.90
BC: 158 lb Conc. Load at 5.90,15.90,17.90,19.90

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.99	34.38	4.14
23.75	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

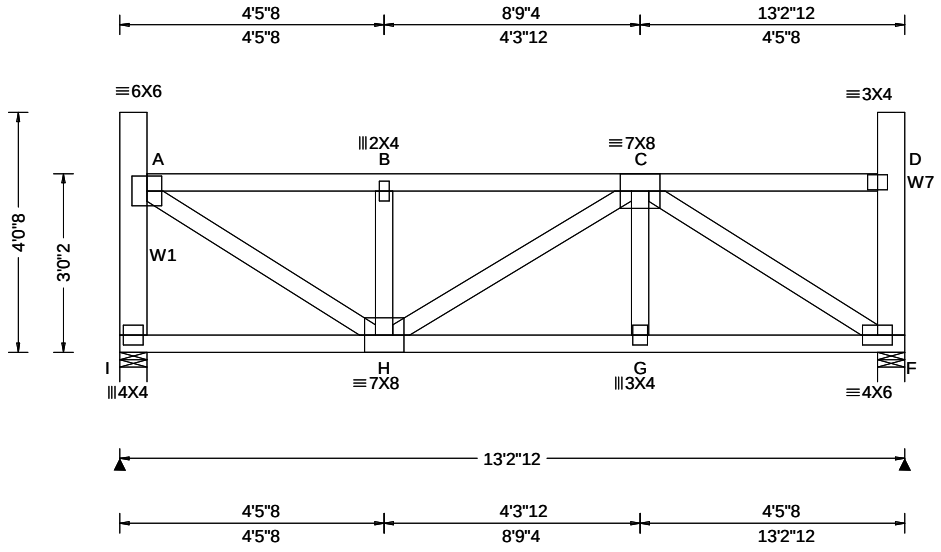
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34917 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T09	Cust: R 9316 JRef:1Xf493160006 T14 DrwNo: 119.22.1314.07263 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.037	G	999	360
VERT(CL): 0.063	G	999	240
HORZ(LL): 0.013	F	-	-
HORZ(TL): 0.022	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.276
Max BC CSI: 0.790
Max Web CSI: 0.693

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	1196	/-	/-	/-	/170	/-
F	1119	/-	/-	/-	/144	/-

Wind reactions based on MWFRS
I Brg Wid = 5.5 Min Req = 1.9 (Truss)
F Brg Wid = 5.5 Min Req = 1.8 (Truss)
Bearings I & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	202	-1470	B - C	201	-1465

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	1453	-189	G - F	1453	-189

Maximum Web Forces Per Ply (lbs)

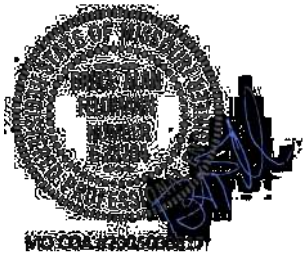
Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - A	124	-979	C - G	531	-89
A - H	1590	-217	C - F	214	-1654

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 25 plf at 0.00 to 25 plf at 13.23
BC: 188 lb Conc. Load at 1.17, 3.17, 5.17,11.17
BC: 186 lb Conc. Load at 7.17, 9.17

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

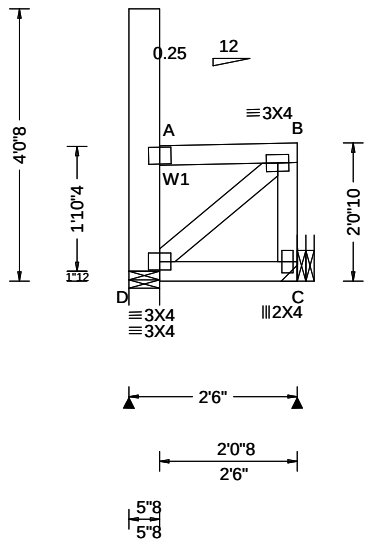
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34905 MONO FROM:	Ply: 1 Qty: 17	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02A	Cust: R 9316 JRef:1Xf493160006 T13 DrwNo: 119.22.1313.49987 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.102
Max BC CSI: 0.066
Max Web CSI: 0.106

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	113	/-	/-	/90	/76	/62
C	158	/-	/-	/132	/56	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

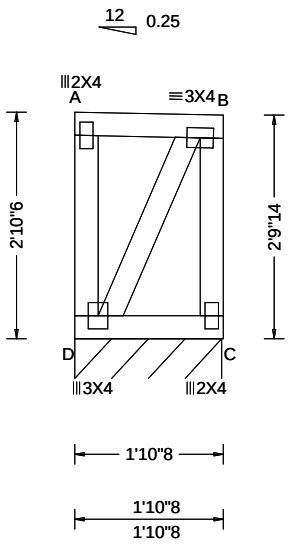
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34908 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE22A	Cust: R 9316 JRef:1Xf493160006 T12 DrwNo: 119.22.1315.33037 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.66 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): -0.000	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.038
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	121	/-	/-	/51	/6	/27

Wind reactions based on MWFRS
D Brg Wid = 22.3 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

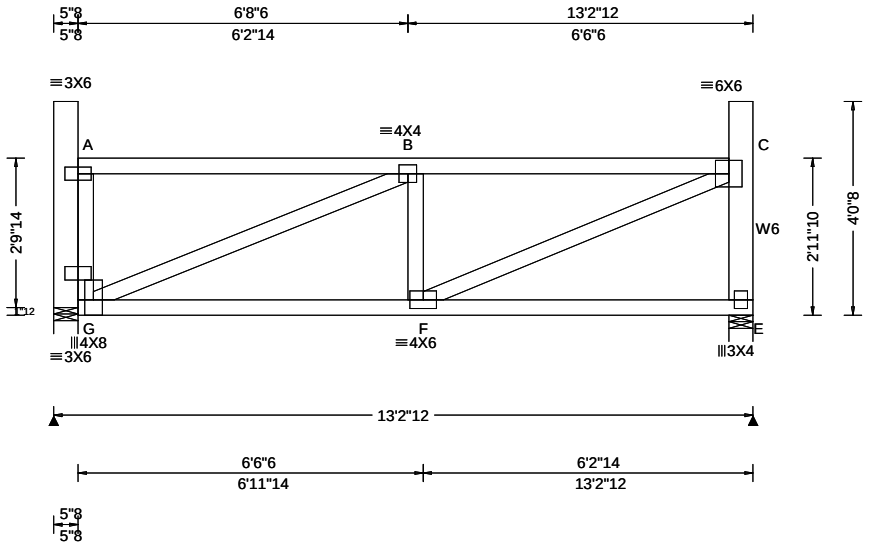
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34911 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T08A	Cust: R 9316 JRef:1Xf493160006 T11 DrwNo: 119.22.1314.05753 / BAF 04/29/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	10.00
Des Ld:	60.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.036	B	999	360
VERT(CL): 0.062	B	999	240
HORZ(LL): 0.007	E	-	-
HORZ(TL): 0.012	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.709
Max BC CSI: 0.759
Max Web CSI: 0.928

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	759	/-	/-	/339	/61	/116
E	741	/-	/-	/330	/56	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Support)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	98	-1104

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	1105	-152

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	592	-46	F - C	1104	-149
G - A	74	-766	C - E	80	-612
G - B	154	-1171			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W6 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11823.35" if used)

Additional Notes

WARNING! Reaction exceeds allowable

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

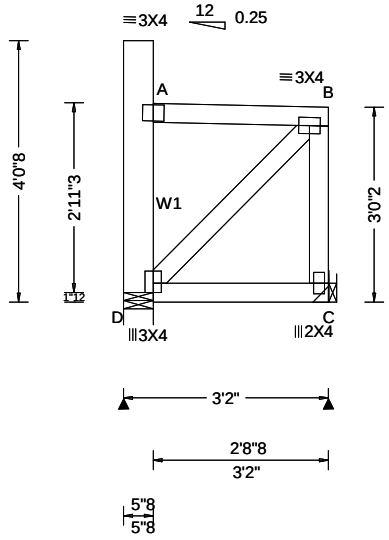
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34914 MONO FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48A	Cust: R 9316 JRef:1Xf493160006 T8 DrwNo: 119.22.1315.17613 / BAF 04/29/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.71 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.139
Max BC CSI: 0.109
Max Web CSI: 0.028

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	139	/-	/-	/81	/43	/34
C	186	/-	/-	/113	/33	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

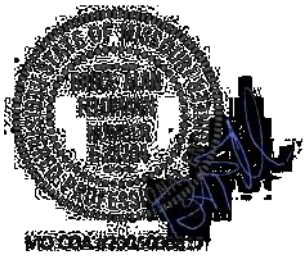
Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Gable Stud Reinforcement Detail

ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 "L" Brace * Group A	(1) 1x4 "L" Brace * Group B	(1) 2x4 "L" Brace * Group A	(1) 2x4 "L" Brace * Group B	(2) 2x4 "L" Brace ** Group A	(2) 2x4 "L" Brace ** Group B	(1) 2x6 "L" Brace * Group A	(1) 2x6 "L" Brace * Group B	(2) 2x6 "L" Brace ** Group A	(2) 2x6 "L" Brace ** Group B
24" o.c.	SPF HF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"
16" o.c.	SPF HF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

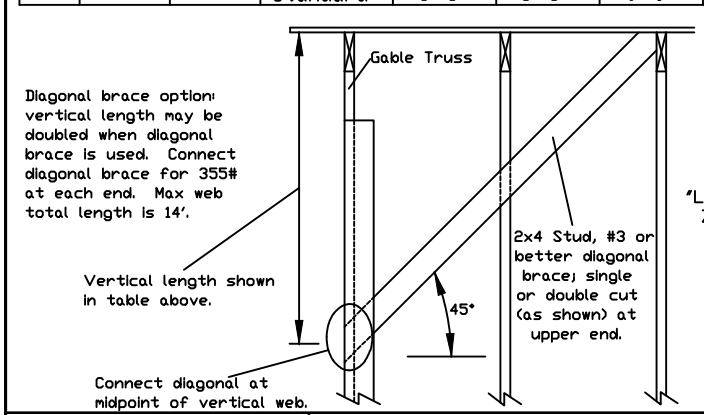
Attach "L" braces with 10d (0.128"x3.0" min) nails.

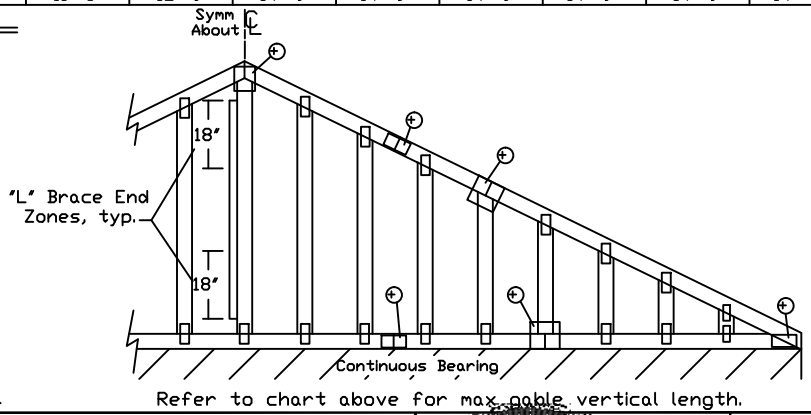
* For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

"L" bracing must be a minimum of 80% of web member length.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 355# at each end. Max web total length is 14'.





Refer to chart above for max. gable vertical length.

Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

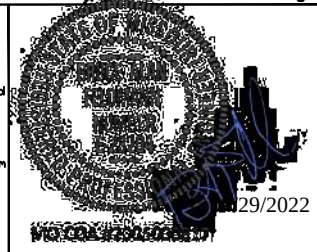
WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT: FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-16-GAB11530
DATE 01/26/2018
DRWG A11530ENC160118

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforecement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

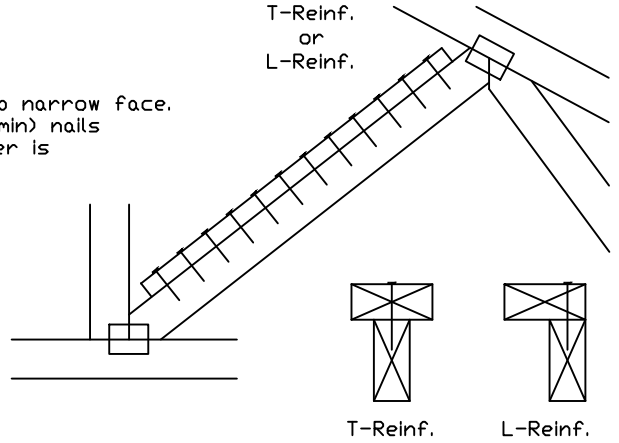
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Alternative Reinforecement Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

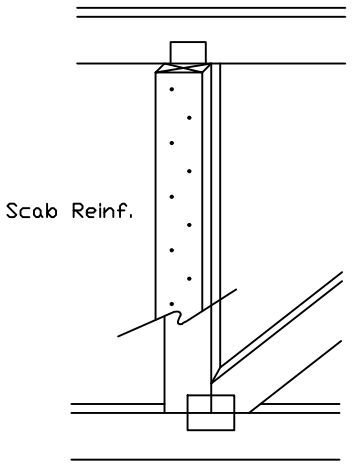
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

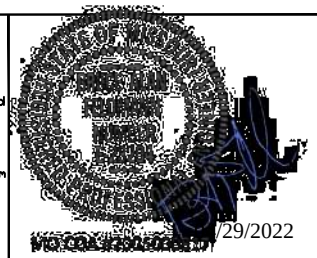
****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



/29/2022

TC LL	PSF	
TC DL	PSF	
BC DL	PSF	
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

REF	CLR Subst.
DATE	01/02/19
DRWG	BRCLBSUB0119

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

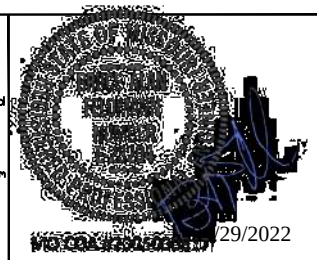
****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C
Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail for lumber, plates, and other information not shown on this detail.

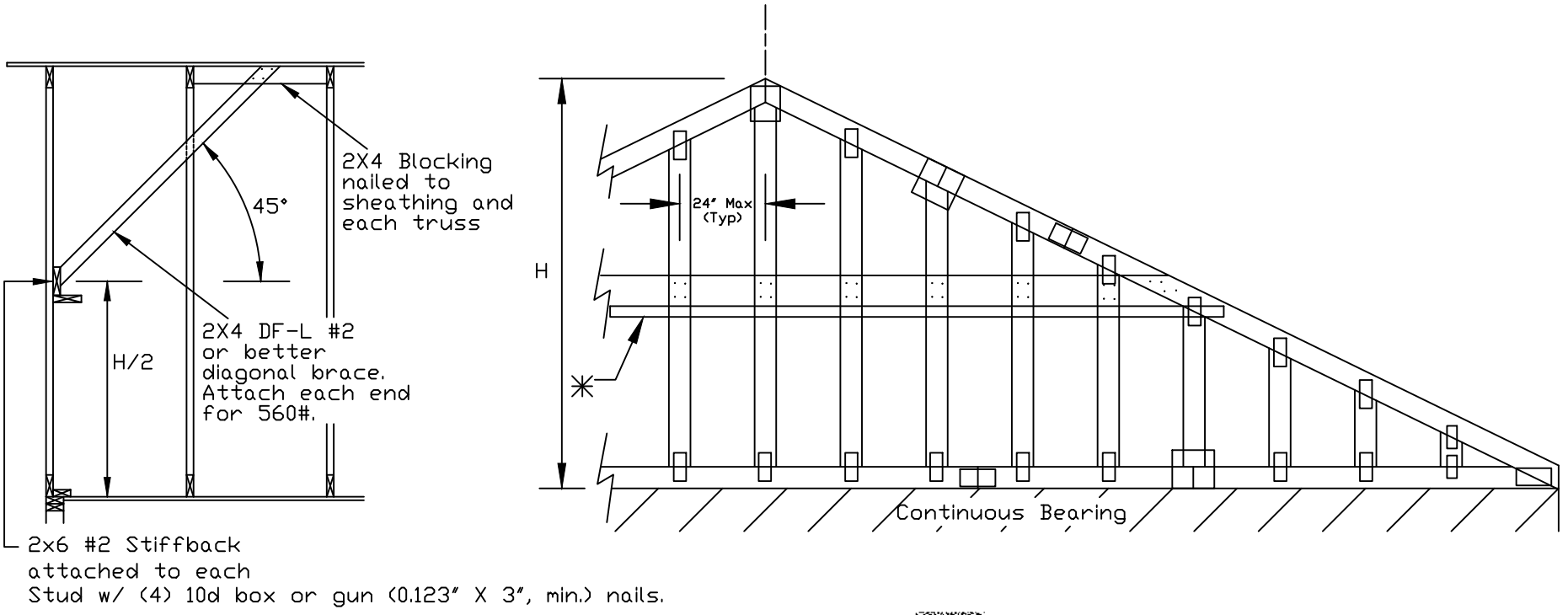
Nails: 10d box or gun (0.128"x3",min) nails.

H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback to roof diaphragm every 6'0" (see detail below or refer to DRWG A12030ENC160118).

H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace to roof diaphragm every 4'0" (see detail below or refer to DRWG A12030ENC160118).

✳ Optional 2x L-reinforcement attached to stiffback with 10d box or gun (0.128" x 3", min.) nails @ 6" o.c.



ALPINE
AN ITW COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

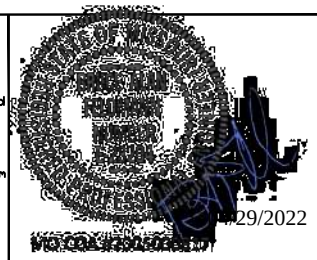
****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

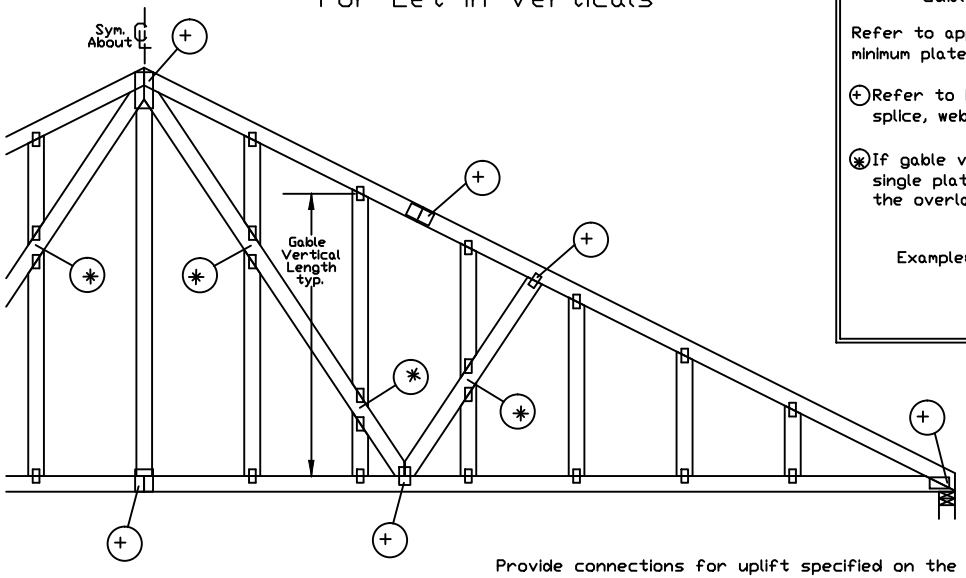


MAX. TOT. LD. 60 PSF

MAX. SPACING

REF	GE WHALER
DATE	01/02/2018
DRWG	GABRST160118

Gable Detail
For Let-in Verticals



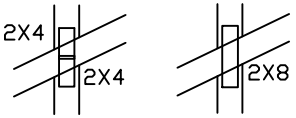
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

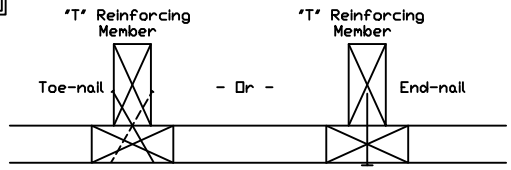
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊛ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



"T" Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:
10d Common (0.148"x 3.",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

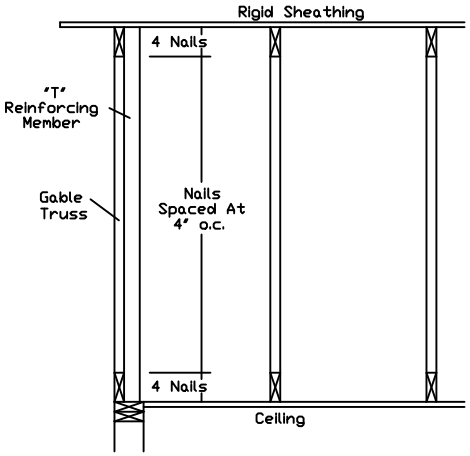
Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24"o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

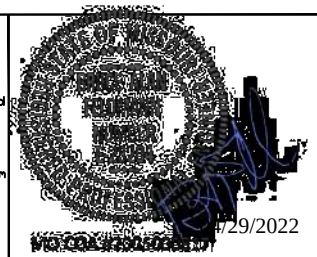
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



4/29/2022

MAX. TOT. LD. 60 PSF
DUR. FAC. ANY
MAX. SPACING 24.0"

REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 9 Truss	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Building 9

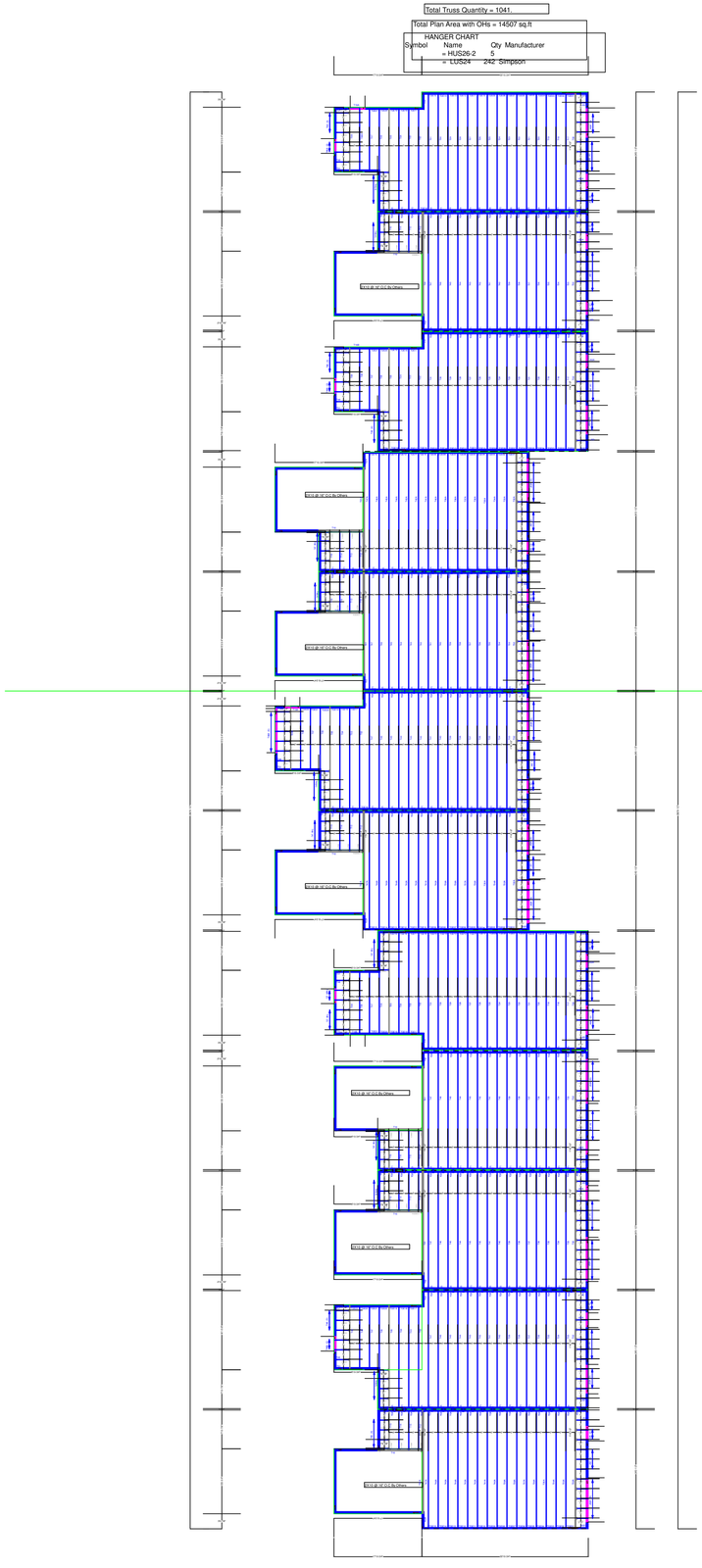
GROUP 9 ROOF LAYOUT

Total Truss Quantity = 1041.

Total Plan Area with OHs = 14507 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
=	HUS26-2	5	
=	LUS24	242	Simpson



ROOF TRUSS LAYOUT (NTS)

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 6/6/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED
CHANGE ORDER.

TRI ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED, REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS
DATE 05/30/2022 BY CB

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

Job Name: McCambridge Brothers Construction

Designer: Juan R Quiroz

Date: 5/12/2022

Reference #: JB-220690

mill Creek
3363 S. Halstead Rd.
Hesston, KS 67062
(316) 830-6108

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

Building 9

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/12/2022

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 6/6/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED. REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 *BY:* CB

Site Information:	**Page 1:**
Customer: Mill Creek Truss	*Job Number:* JB-220690
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1XfH93160007
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 109 *Building Type:* Closed	*Design Loading (psf):* 65.00

This package contains general notes pages, 102 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	132.22.1629.42228	J02	2	132.22.1629.46133	J02G
3	132.22.1629.42634	T01	4	132.22.1629.43172	T02
5	132.22.1629.43358	T03	6	132.22.1629.46577	T04
7	132.22.1629.39738	T05	8	132.22.1629.42899	T06
9	132.22.1629.44384	T07	10	132.22.1629.43584	T08
11	132.22.1629.43932	T10	12	132.22.1629.43460	T11
13	132.22.1629.42916	T12	14	132.22.1629.44323	T13
15	132.22.1629.46079	T14	16	132.22.1629.42851	T15
17	132.22.1629.43156	T17	18	132.22.1629.39265	T18
19	132.22.1629.45012	T19	20	132.22.1629.42863	T20
21	132.22.1629.41546	T21	22	132.22.1642.37653	T22
23	132.22.1629.43745	T23	24	132.22.1629.44199	T24
25	132.22.1629.45487	T25	26	132.22.1629.43508	T26
27	132.22.1629.44320	T27	28	132.22.1629.43240	T28
29	132.22.1629.41786	T29	30	132.22.1629.44658	T30
31	132.22.1629.45098	T31	32	132.22.1629.41666	T33
33	132.22.1629.41408	T34	34	132.22.1629.43657	T35
35	132.22.1629.43189	T36	36	132.22.1629.43041	T37
37	132.22.1629.42023	T38	38	132.22.1629.42244	T39
39	132.22.1629.43669	T40	40	132.22.1629.43327	T41
41	132.22.1629.42377	T42	42	132.22.1629.41944	T43
43	132.22.1629.43718	T44	44	132.22.1629.41521	T45
45	132.22.1629.39214	T46	46	132.22.1629.41439	T47
47	132.22.1629.43389	T48	48	132.22.1629.42283	T49
49	132.22.1629.41690	T50	50	132.22.1629.42952	T51

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/12/2022

Site Information:	Page 2:
Customer: Mill Creek Truss	*Job Number:* JB-220690
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	132.22.1629.45561	TGE01
53	132.22.1629.46193	TGE03
55	132.22.1629.42035	TGE05
57	132.22.1629.39215	TGE07
59	132.22.1629.44992	TGE09
61	132.22.1629.43081	TGE11
63	132.22.1629.41404	TGE13
65	132.22.1629.43408	TGE15
67	132.22.1629.42632	TGE18
69	132.22.1629.39197	TGE20
71	132.22.1629.44657	TGE22
73	132.22.1629.41332	TGE16
75	132.22.1629.43583	T32
77	132.22.1644.56770	T48A
79	132.22.1629.43441	T08A
81	132.22.1629.42976	T19A
83	132.22.1642.30863	T14A
85	132.22.1644.51183	T47A
87	132.22.1644.38410	T45A
89	132.22.1644.25580	T43A
91	132.22.1644.06800	T41A
93	132.22.1643.52563	T39A
95	132.22.1643.33050	T37A
97	132.22.1643.20787	T35A
99	132.22.1642.54143	T33A
101	132.22.1645.14180	T52A
103	A11530ENC160118	
105	DEFLCAMB1014	
107	GBLLETIN0118	

Item	Drawing Number	Truss
52	132.22.1629.44764	TGE02
54	132.22.1629.46314	TGE04
56	132.22.1629.41699	TGE06
58	132.22.1629.46491	TGE08
60	132.22.1629.44257	TGE10
62	132.22.1629.41838	TGE12
64	132.22.1629.42025	TGE14
66	132.22.1629.42633	TGE17
68	132.22.1629.41930	TGE19
70	132.22.1629.42389	TGE21
72	132.22.1629.43738	TGE23
74	132.22.1629.41559	T52
76	132.22.1642.03370	T09
78	132.22.1629.41590	J02A
80	132.22.1642.17403	T09B
82	132.22.1629.41854	T16A
84	132.22.1629.42903	T01A
86	132.22.1644.43550	T46A
88	132.22.1644.30937	T44A
90	132.22.1644.14913	T42A
92	132.22.1643.59780	T40A
94	132.22.1643.48177	T38A
96	132.22.1643.26203	T36A
98	132.22.1643.10310	T34A
100	132.22.1642.45927	T32A
102	132.22.1629.42197	T16B
104	BRCLBSUB0119	
106	GABRST160118	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

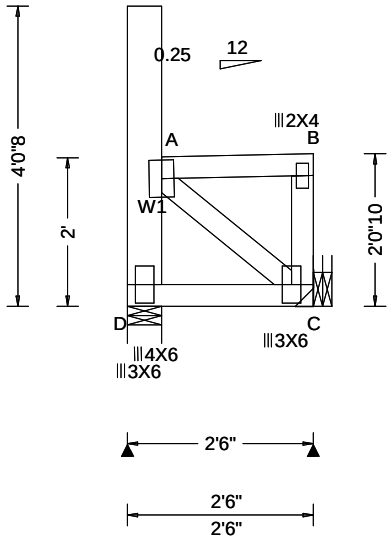
BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

SEQN: 35939 / MONO FROM:	Ply: 1 Qty: 65	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02	Cust: R 9316 JRef:1XfH93160007 T193 DrwNo: 132.22.1629.42228 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.103
Max BC CSI: 0.079
Max Web CSI: 0.131

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	147	/-	/-	/114	/79	/90
C	173	/-	/-	/157	/63	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
A - C	238	-387

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

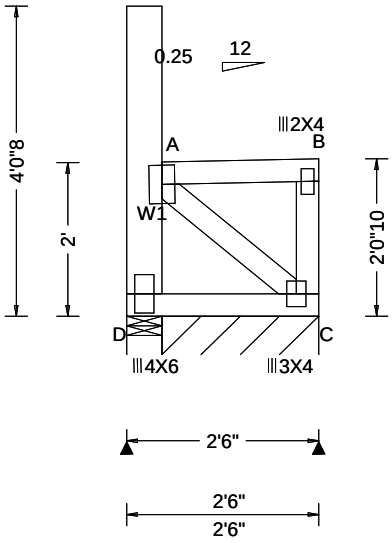
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35460 / MONO FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02G	Cust: R 9316 JRef:1XfH93160007 T133 DrwNo: 132.22.1629.46133 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 B	999	360
VERT(CL):	0.000 B	999	240
HORZ(LL):	0.001 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.103
Max BC CSI: 0.079
Max Web CSI: 0.105

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	147	/-	/-	/122	/85	/98
C*	85	/-	/-	/78	/33	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = 24.5 Min Req = -
Bearings D & D are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

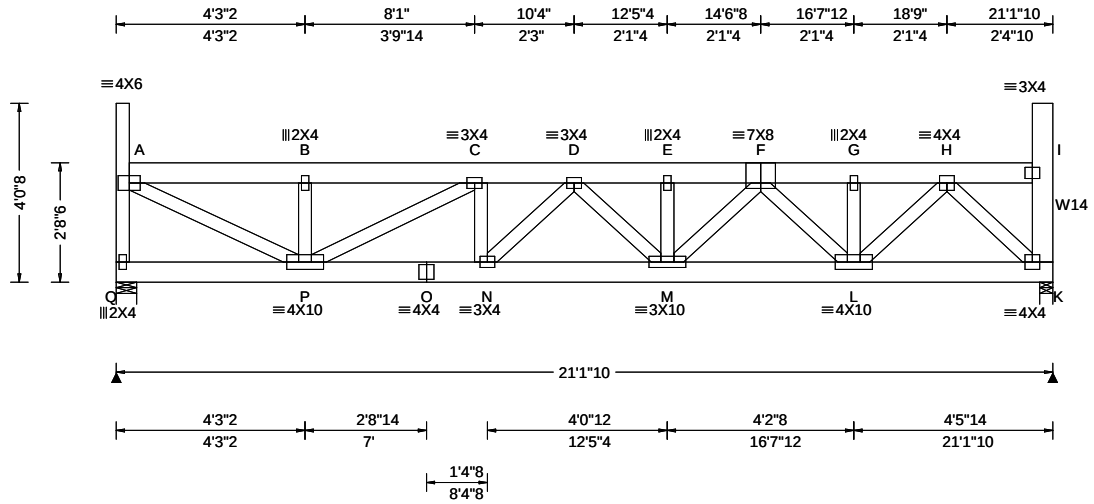
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35557 / FLAT FROM:	Ply: 3 Qty: 4	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T01	Cust: R 9316 JRef:1XfH93160007 T10 / DrwNo: 132.22.1629.42634 / NDW 05/12/2022

3 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.060	D	999	360
VERT(CL): 0.111	D	999	240
HORZ(LL): 0.014	K	-	-
HORZ(TL): 0.026	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.054
Max BC CSI: 0.283
Max Web CSI: 0.291

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	1981	/-	/-	/-	/117	/-
K	2325	/-	/-	/-	/149	/-

Wind reactions based on MWFRS
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
K Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings Q & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	68	- 1106	E - F	154	- 2215
B - C	68	- 1102	F - G	93	- 1390
C - D	116	- 1792	G - H	93	- 1390
D - E	154	- 2215			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	1751	- 113	M - L	1836	- 126
O - N	1751	- 113	L - K	768	- 51
N - M	2024	- 136			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - A	38	- 620	F - L	48	- 652
A - P	1188	- 73	L - H	908	- 61
P - C	52	- 752	H - K	70	- 1041
M - F	554	- 41			

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 9.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 20.68
BC: From 60 plf at 0.00 to 60 plf at 21.14
BC: 1611 lb Conc. Load at 12.90

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.39	1.34	13.80	3.32
20.68	0.00	20.39	1.34	13.80	3.32

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

05/12/2022

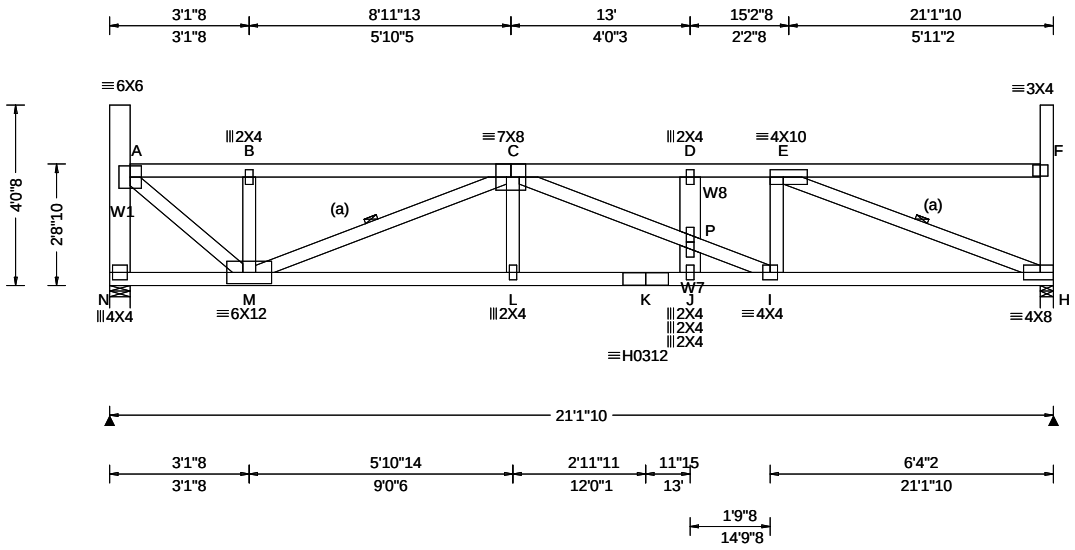
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35461 / FLAT FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T02	Cust: R 9316 JRef:1XfH93160007 T1 / DrwNo: 132.22.1629.43172 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.138 D	999	360
VERT(CL):	0.256 D	990	240
HORZ(LL):	0.036 H	-	-
HORZ(TL):	0.066 H	-	-

Creep Factor: 2.0
Max TC CSI: 0.439
Max BC CSI: 0.523
Max Web CSI: 0.606

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1340	/-	/-	/640	/72	/120
H	1352	/-	/-	/644	/74	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.7 (Truss)
H Brg Wid = 3.5 Min Req = 1.7 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	136	- 1624	C - D	137	- 2651
B - C	136	- 1621	D - E	137	- 2651

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	3043	- 236	J - I	3043	- 236
L - K	3043	- 236	I - H	2579	- 154
K - J	3043	- 236			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	76	- 1286	P - I	94	- 436
A - M	1934	- 116	I - E	605	- 3
M - C	127	- 1537	E - H	165	- 2736
C - P	93	- 420			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.32	13.12	3.16
20.84	0.00	20.39	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

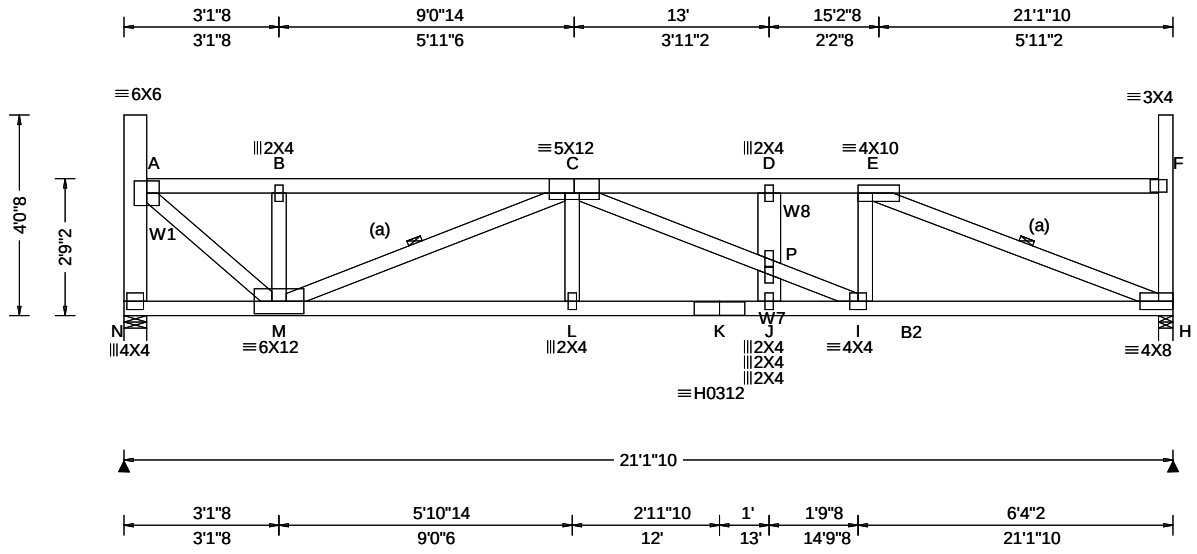
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35462 / FLAT FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T03	Cust: R 9316 JRef:1XfH93160007 T2 / DrwNo: 132.22.1629.43358 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.142	D	999	360
VERT(CL): 0.255	D	994	240
HORZ(LL): 0.040	H	-	-
HORZ(TL): 0.075	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.440
Max BC CSI: 0.996
Max Web CSI: 0.600

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1342	/-	/-	/639	/73	/119
H	1353	/-	/-	/644	/75	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 2.1 (Truss)
H Brg Wid = 3.5 Min Req = 1.7 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	134	- 1601	C - D	136	- 2612
B - C	134	- 1598	D - E	136	- 2612

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2997	- 235	J - I	2997	- 235
L - K	2997	- 235	I - H	2541	- 153
K - J	2997	- 235			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	77	- 1290	P - I	93	- 742
A - M	1919	- 115	I - E	605	- 3
M - C	126	- 1516	E - H	164	- 2703
C - P	92	- 722			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.28	11.74	2.83
20.84	0.00	20.39	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.14" DL: 0.14". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

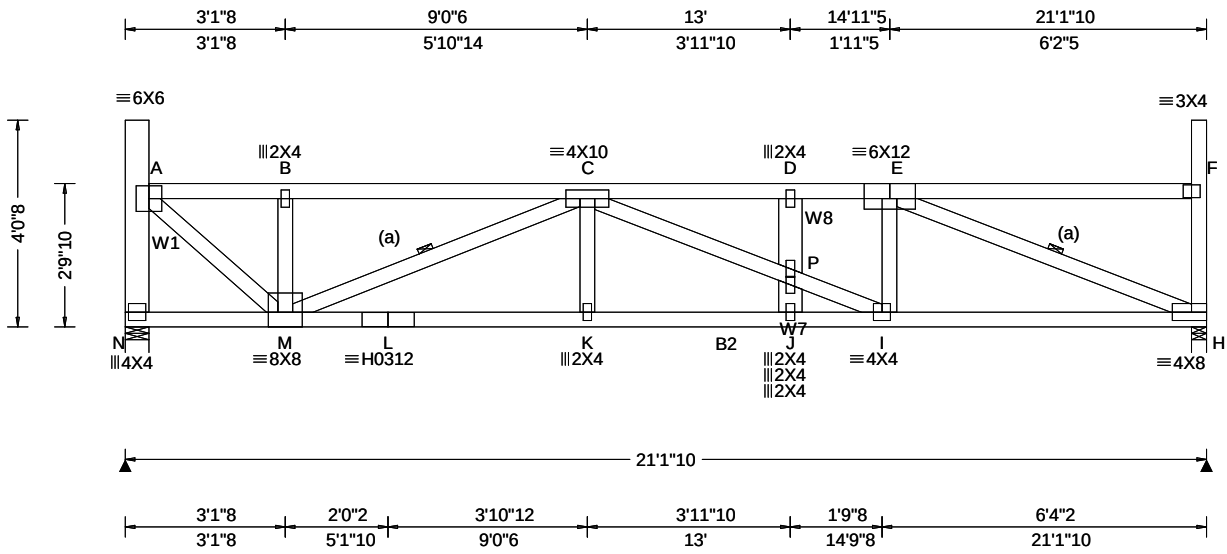
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35463 / FLAT FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T04	Cust: R 9316 JRef:1XfH93160007 T3 / DrwNo: 132.22.1629.46577 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.132	D	999	360
VERT(CL): 0.236	D	999	240
HORZ(LL): 0.036	H	-	-
HORZ(TL): 0.067	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.440
Max BC CSI: 0.919
Max Web CSI: 0.592

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1342	/-	/-	/639	/73	/118
H	1353	/-	/-	/644	/75	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 2.1 (Truss)
H Brg Wid = 3.5 Min Req = 1.7 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	132	- 1571	C - D	159	- 2565
B - C	132	- 1567	D - E	159	- 2565

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2953	- 232	J - I	2953	- 232
L - K	2953	- 232	I - H	2494	- 151
K - J	2953	- 232			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	78	- 1287	P - I	92	- 685
A - M	1894	- 114	I - E	611	- 3
M - C	123	- 1506	E - H	161	- 2659
C - P	91	- 659			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.24	10.35	2.50
20.84	0.00	20.39	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

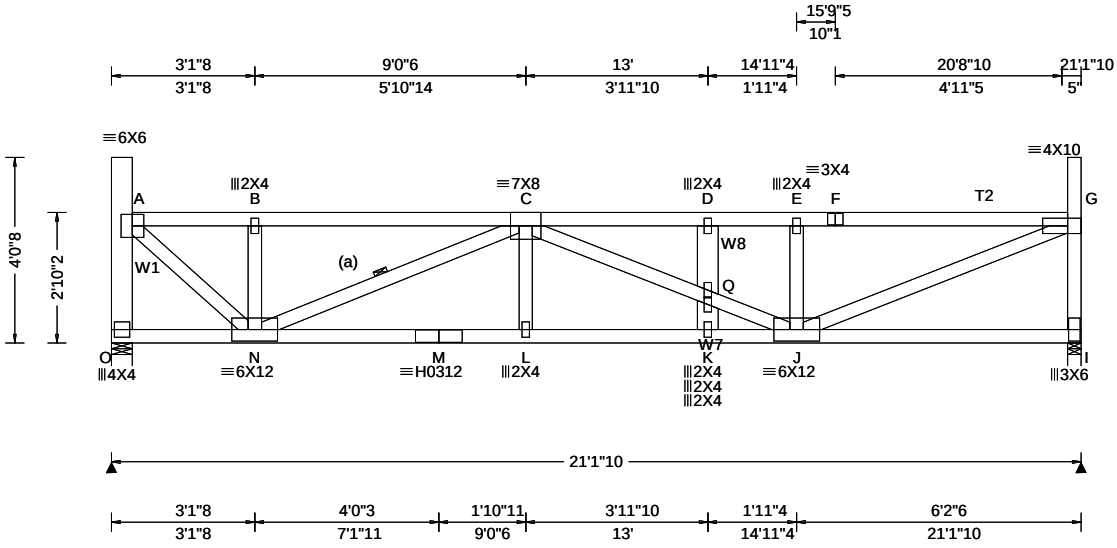
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35550 / FLAT FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T05	Cust: R 9316 JRef:1XfH93160007 T4 / DrwNo: 132.22.1629.39738 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.153	D	999	360
VERT(CL): 0.283	D	895	240
HORZ(LL): 0.034	A	-	-
HORZ(TL): 0.063	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.626
Max BC CSI: 0.730
Max Web CSI: 0.771

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	1435	/-	/-	/-	/115	/-
I	1602	/-	/-	/-	/238	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 1.8 (Truss)
I Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	137	-1659	D - E	430	-3020
B - C	137	-1656	E - F	430	-3017
C - D	430	-3020	F - G	430	-3025

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	3240	-327	L - K	3240	-327
M - L	3240	-327	K - J	3240	-327

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	114	-1381	Q - J	0	-448
A - N	2014	-167	J - G	3143	-446
N - C	207	-1726	G - I	187	-1404
C - Q	0	-432			

Lumber
Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 20.84
BC: From 60 plf at 0.00 to 60 plf at 13.29
BC: From 30 plf at 13.29 to 30 plf at 21.14
BC: 144 lb Conc. Load at 13.29,15.07,17.07,19.07

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.20	8.97	2.16
20.84	0.00	20.39	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

05/12/2022

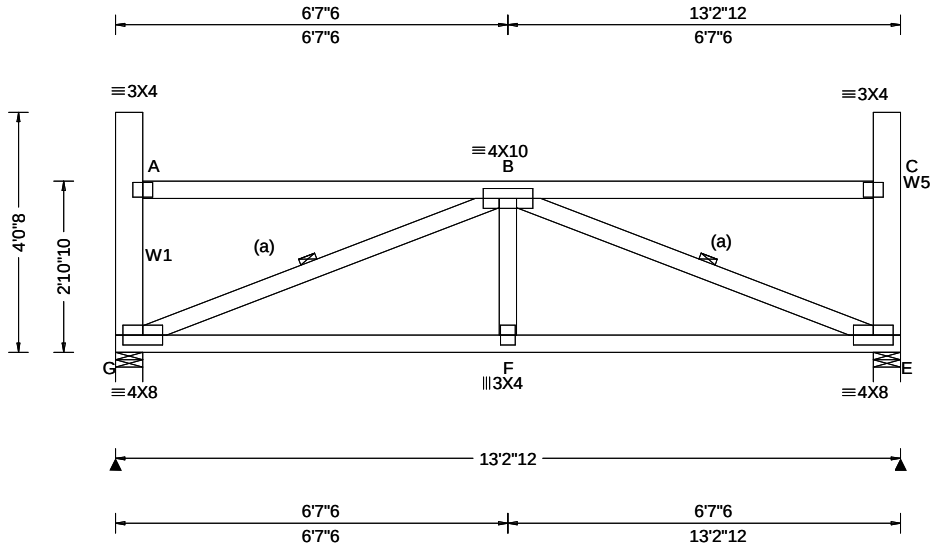
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35464 / SPEC FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T06	Cust: R 9316 JRef:1XfH93160007 T5 / DrwNo: 132.22.1629.42899 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.89 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.043	F	999	360
VERT(CL): 0.080	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.028	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.546
Max BC CSI: 0.744
Max Web CSI: 0.315

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	828	/-	/-	/407	/56	/115
E	828	/-	/-	/407	/56	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1311	- 165	F - E	1311	- 165

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	178	- 1334	B - E	176	- 1334
B - F	440	0			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.59	1.83
12.77	0.00	20.00	1.16	7.59	1.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

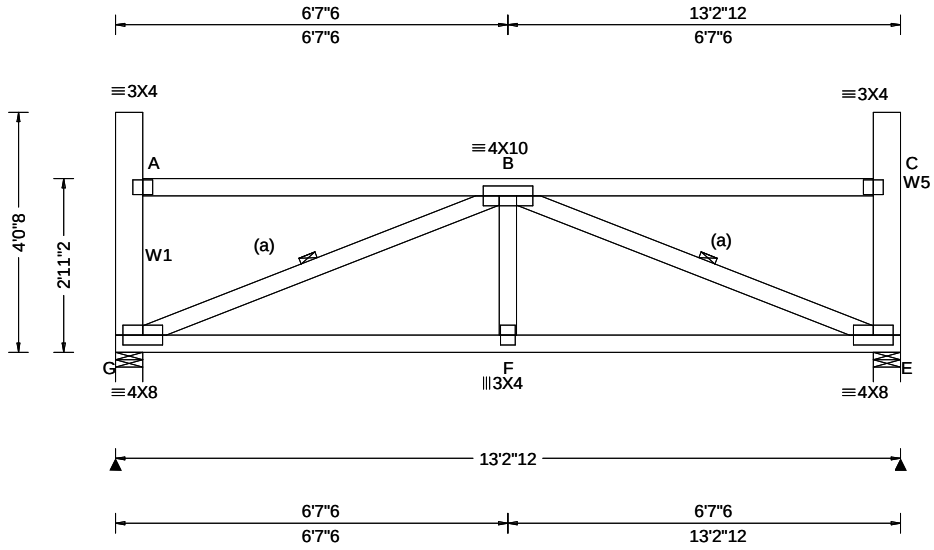
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35465 / FLAT FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T07	Cust: R 9316 JRef:1XfH93160007 T6 / DrwNo: 132.22.1629.44384 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.93 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.042 F	999	360
VERT(CL):	0.078 F	999	240
HORZ(LL):	0.015 E	-	-
HORZ(TL):	0.028 E	-	-

Creep Factor: 2.0
Max TC CSI: 0.547
Max BC CSI: 0.741
Max Web CSI: 0.312

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	828	/-	/-	/407	/56	/114
E	828	/-	/-	/407	/56	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1291	- 163	F - E	1291	- 163

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	174	- 1316	B - E	172	- 1316
B - F	440	0			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.11	6.20	1.50
12.77	0.00	20.00	1.11	6.20	1.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

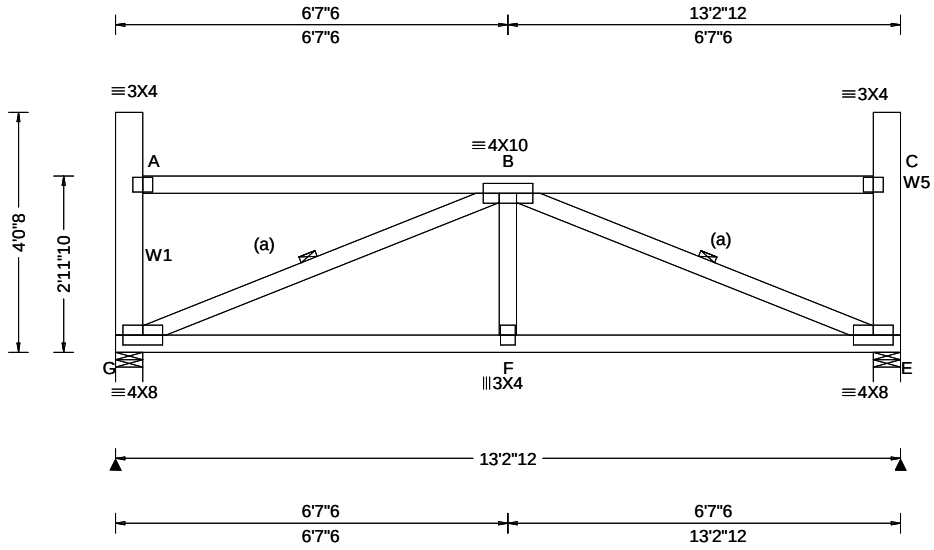
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35928 / FLAT FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T08	Cust: R 9316 JRef:1XfH93160007 T7 / DrwNo: 132.22.1629.43584 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.97 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.041	F	999	360
VERT(CL): 0.076	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.027	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.548
Max BC CSI: 0.738
Max Web CSI: 0.309

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	828	/-	/-	/407	/56	/113
E	828	/-	/-	/407	/56	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1271	- 161	F - E	1271	- 161

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	170	- 1299	B - E	168	- 1299
B - F	441	0			

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

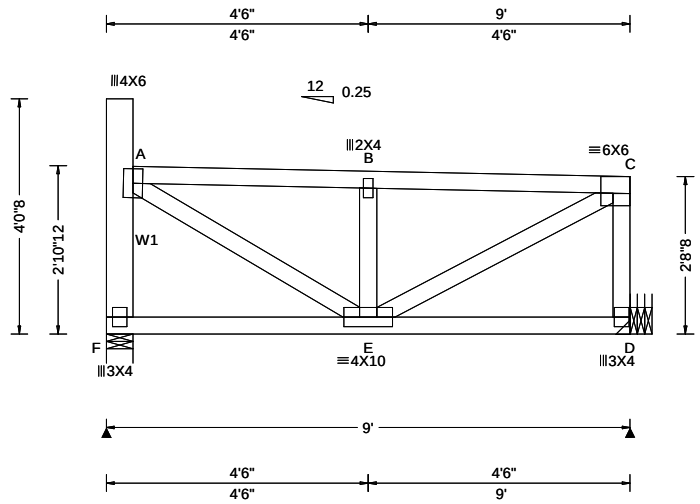
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35556 / MONO FROM:	Ply: 2 Qty: 7	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T10	Cust: R 9316 JRef:1XfH93160007 T9 / DrwNo: 132.22.1629.43932 / NDW 05/12/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.015 B	999	360
VERT(CL):	0.028 B	999	240
HORZ(LL):	0.004 A	-	-
HORZ(TL):	0.007 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.116
Max BC CSI: 0.730
Max Web CSI: 0.231

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	1371	/-	/-	/-	/177	/-
D	1611	/-	/-	/-	/149	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = - Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	96	-857	B - C	96	-858

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
F - A	51	-487	E - C	940	-107
A - E	900	-96	C - D	56	-506

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 3.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	35 plf at	0.46 to	35 plf at	9.00
BC: From	60 plf at	0.00 to	60 plf at	2.33
BC: From	30 plf at	2.33 to	30 plf at	9.00

BC: 762 lb Conc. Load at 2.33
BC: 527 lb Conc. Load at 4.33, 6.33, 8.33

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.84

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

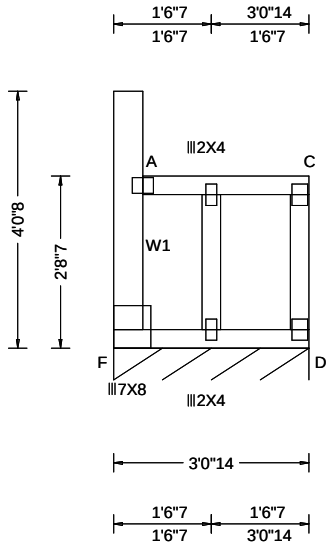
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35468 / GABL FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T11	Cust: R 9316 JRef:1XfH93160007 T108 DrwNo: 132.22.1629.43460 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.007 A	999	360
VERT(CL):	0.009 A	999	240
HORZ(LL):	0.116 A	-	-
HORZ(TL):	0.135 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.116
Max BC CSI: 0.324
Max Web CSI: 0.141

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	120	/-	/-	/56	/4	/30

Wind reactions based on MWFRS
D Brg Wid = 36.9 Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.34	13.63	2.61

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

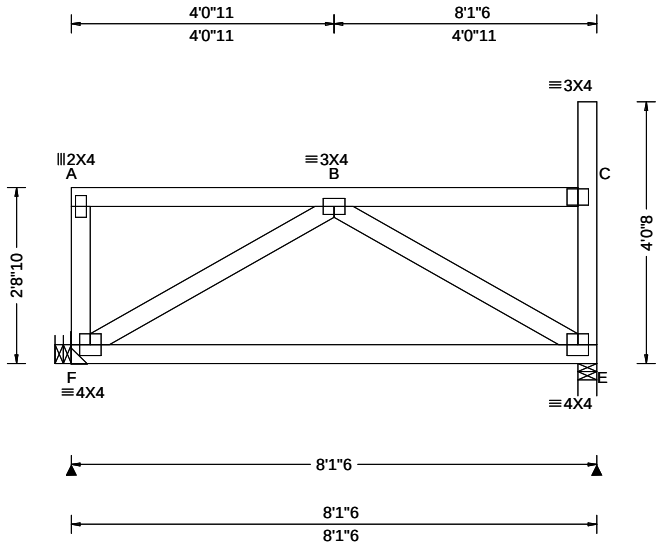
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35469 / FLAT FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T12	Cust: R 9316 JRef:1XfH93160007 T210 DrwNo: 132.22.1629.42916 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.217
Max BC CSI: 0.611
Max Web CSI: 0.204

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/43	/92
E	507	/-	/-	/255	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

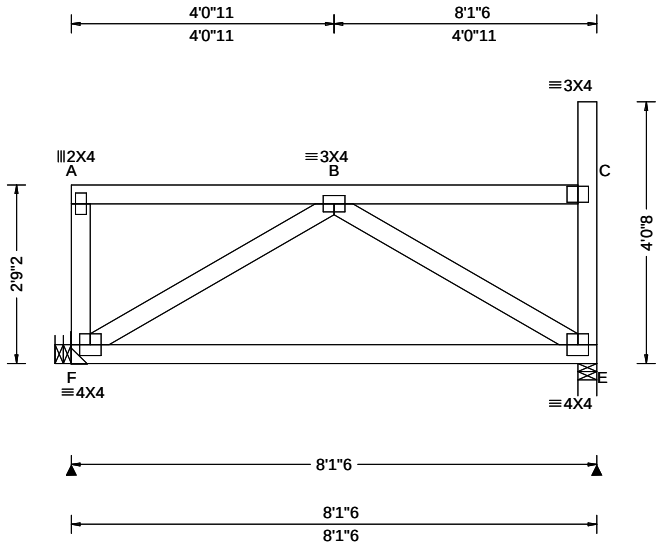
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35470 / FLAT FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T13	Cust: R 9316 JRef:1XfH93160007 T126 DrwNo: 132.22.1629.44323 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.217
Max BC CSI: 0.611
Max Web CSI: 0.204

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/44	/91
E	507	/-	/-	/255	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

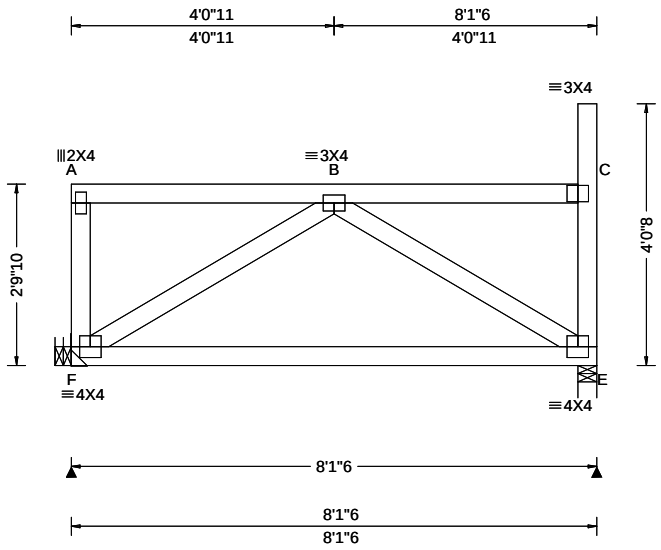
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35471 / FLAT FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T14	Cust: R 9316 JRef:1XfH93160007 T130 DrwNo: 132.22.1629.46079 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.007	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.218
Max BC CSI: 0.610
Max Web CSI: 0.203

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/44	/91
E	507	/-	/-	/255	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

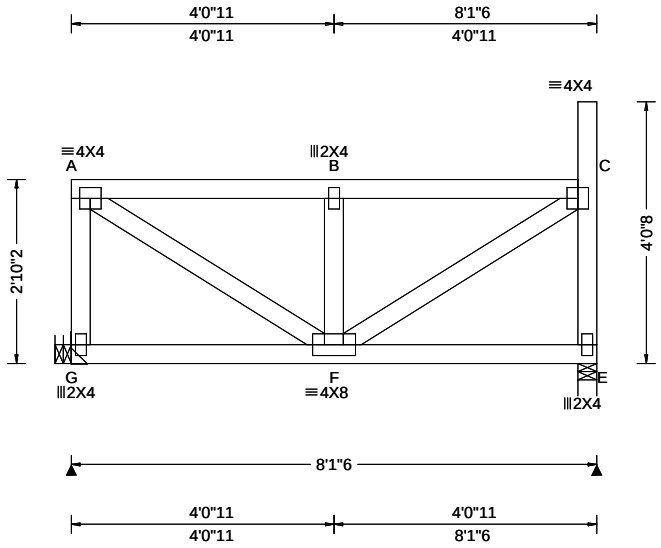
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35553 / FLAT FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T15	Cust: R 9316 JRef:1XfH93160007 T124 DrwNo: 132.22.1629.42851 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.012	B	999	360
VERT(CL): 0.021	B	999	240
HORZ(LL): -0.002	C	-	-
HORZ(TL): 0.004	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.239
Max BC CSI: 0.340
Max Web CSI: 0.190

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	762	/-	/-	/-	/168	/-
E	607	/-	/-	/-	/111	/-

Wind reactions based on MWFRS
G Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	135	- 667	B - C	135	- 671

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	91	- 528	F - C	745	- 151
A - F	773	- 156	C - E	91	- 510

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 7.82
BC: From 30 plf at 0.00 to 30 plf at 8.11
BC: 144 lb Conc. Load at 0.27, 2.05, 4.05, 6.05

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

05/12/2022

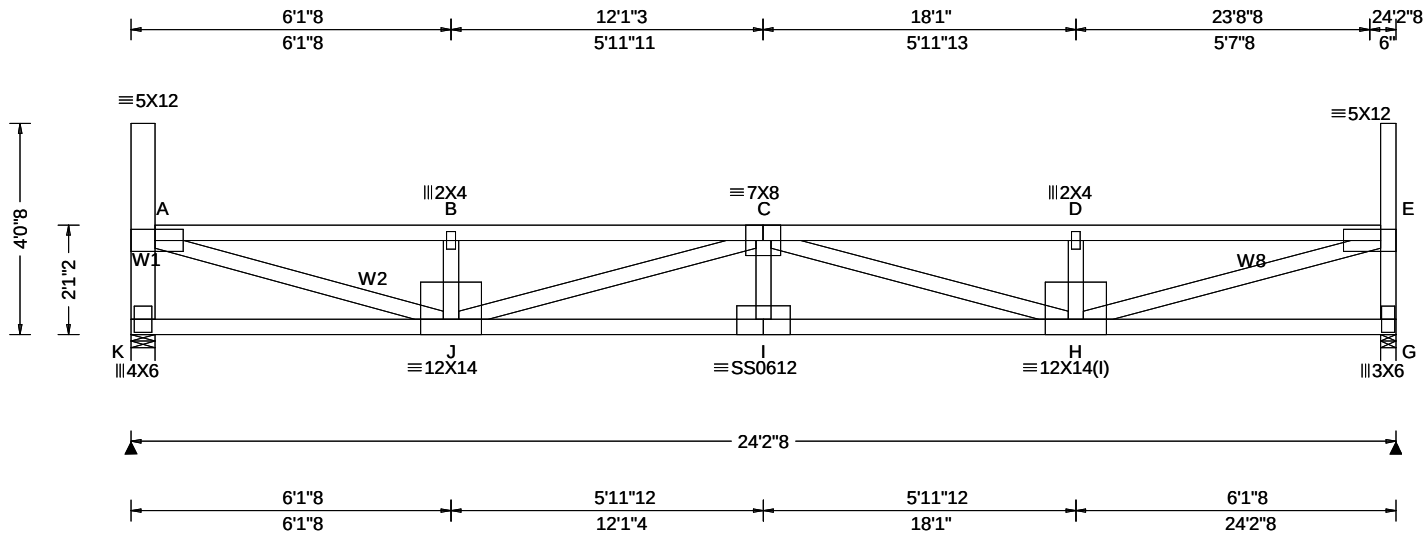
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35474 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T17	Cust: R 9316 JRef:1XfH93160007 T127 DrwNo: 132.22.1629.43156 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.389 I	746	360
VERT(CL):	0.723 I	401	240
HORZ(LL):	0.061 A	-	-
HORZ(TL):	0.113 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.954
Max BC CSI: 0.730
Max Web CSI: 0.868

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/731	/78	/129
G	1553	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	237	- 4188	C - D	229	- 4194
B - C	237	- 4183	D - E	230	- 4199

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5416	- 303	I - H	5416	- 303

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	91	- 1371	C - H	137	- 1277
A - J	4154	- 247	H - E	4238	- 246
J - C	141	- 1288	E - G	93	- 1391

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E; W2, W8 2x4 SPF 2100f-1.8E;

Plating Notes

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.95	33.87	4.20
23.92	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.39" DL: 0.33". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

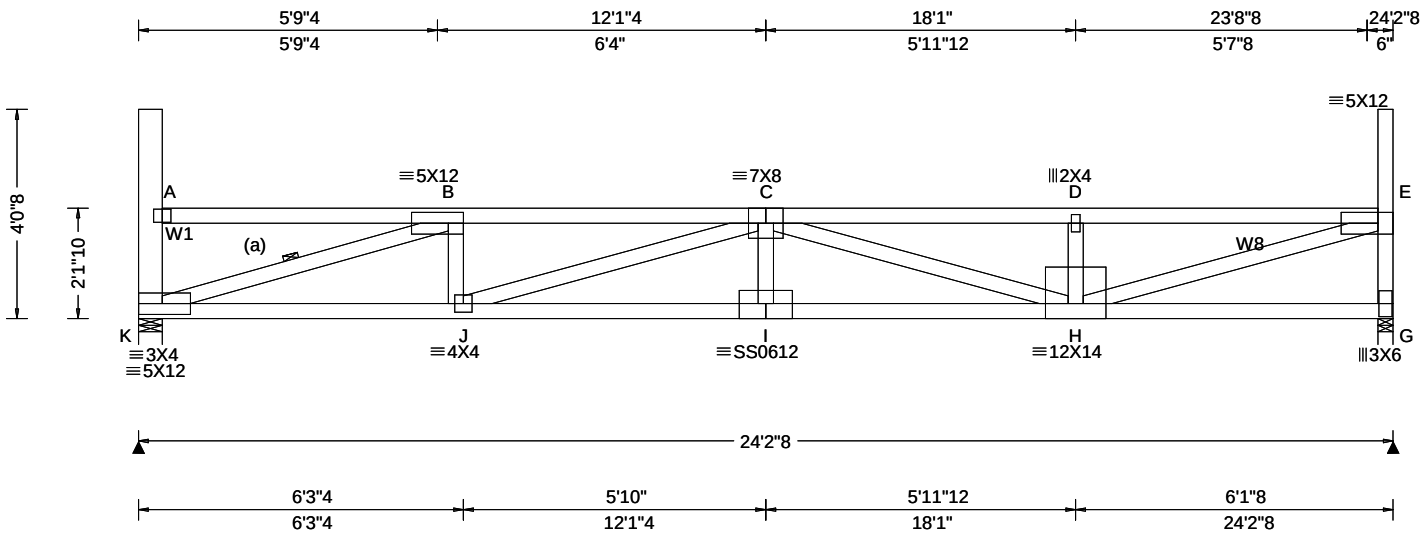
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35475 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T18	Cust: R 9316 JRef:1XfH93160007 T125 DrwNo: 132.22.1629.39265 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.372 I	780	360
VERT(CL):	0.692 I	419	240
HORZ(LL):	0.061 A	-	-
HORZ(TL):	0.114 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.939
Max BC CSI: 0.711
Max Web CSI: 0.846

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1542	/-	/-	/731	/78	/127
G	1553	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	229	- 4117	D - E	225	- 4107
C - D	224	- 4102			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3998	- 359	I - H	5298	- 300
J - I	5298	- 300			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	233	- 4080	C - H	135	- 1252
B - J	758	- 2	H - E	4152	- 240
J - C	139	- 1239	E - G	93	- 1392

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;
W8 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.91	32.49	4.38
23.92	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.37" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

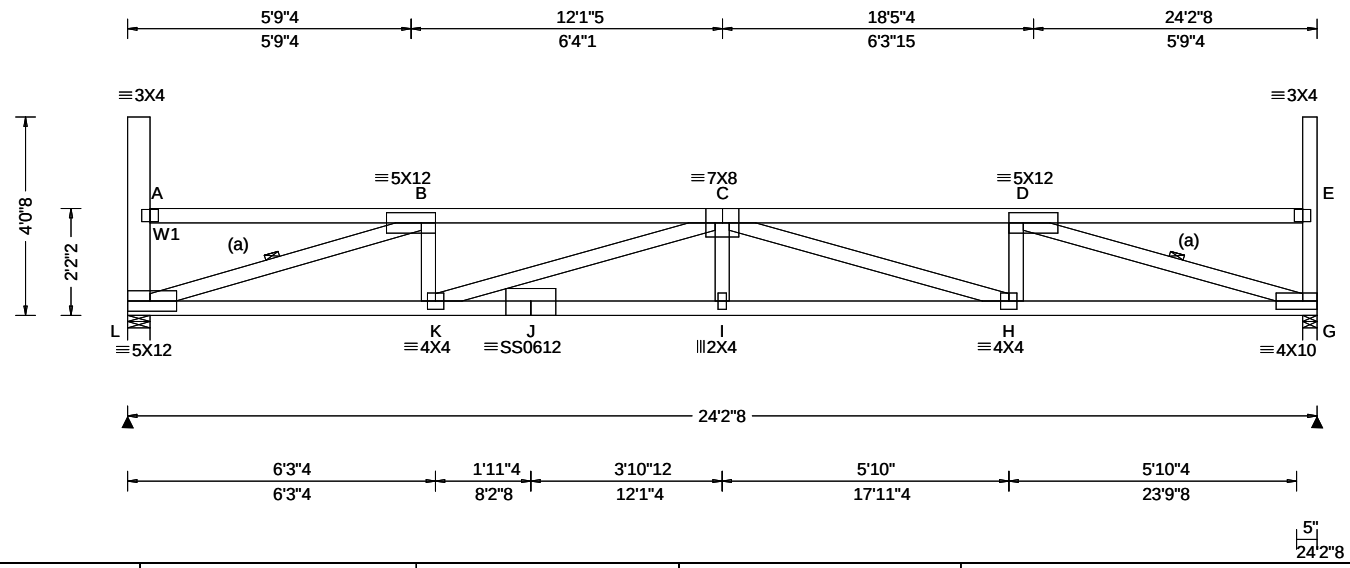
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35476 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T19	Cust: R 9316 JRef:1XfH93160007 T115 DrwNo: 132.22.1629.45012 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.356 I	817	360
VERT(CL):	0.661 I	439	240
HORZ(LL):	0.075 G	-	-
HORZ(TL):	0.139 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.703
Max BC CSI: 0.691
Max Web CSI: 0.853

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/78	/126
G	1553	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	225	- 4029	C - D	216	- 4040

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3913	- 353	I - H	5185	- 296
K - J	5185	- 296	H - G	3922	- 197
J - I	5185	- 296			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	228	- 4002	C - H	135	- 1204
B - K	760	- 2	H - D	774	- 1
K - C	136	- 1216	D - G	226	- 4056

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

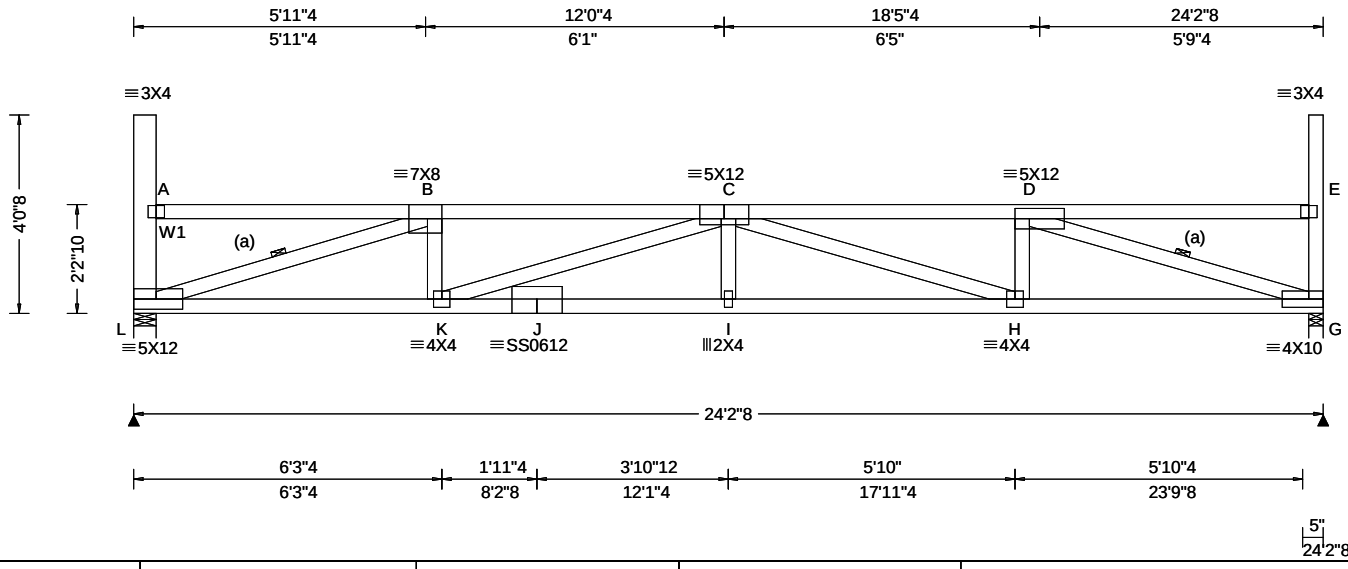
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35478 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T20	Cust: R 9316 JRef:1XfH93160007 T116 DrwNo: 132.22.1629.42863 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.341 I	851	360
VERT(CL):	0.634 I	457	240
HORZ(LL):	0.073 G	-	-
HORZ(TL):	0.137 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.680
Max BC CSI: 0.681
Max Web CSI: 0.839

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
L	1542	/-	/-	/731	/78	/124
G	1553	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	221	-3945	C - D	212	-3955

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3831	-347	I - H	5076	-292
K - J	5076	-292	H - G	3840	-194
J - I	5076	-292			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	224	-3927	C - H	132	-1180
B - K	760	-1	H - D	774	-1
K - C	133	-1191	D - G	222	-3980

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.82	29.72	4.79
23.92	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

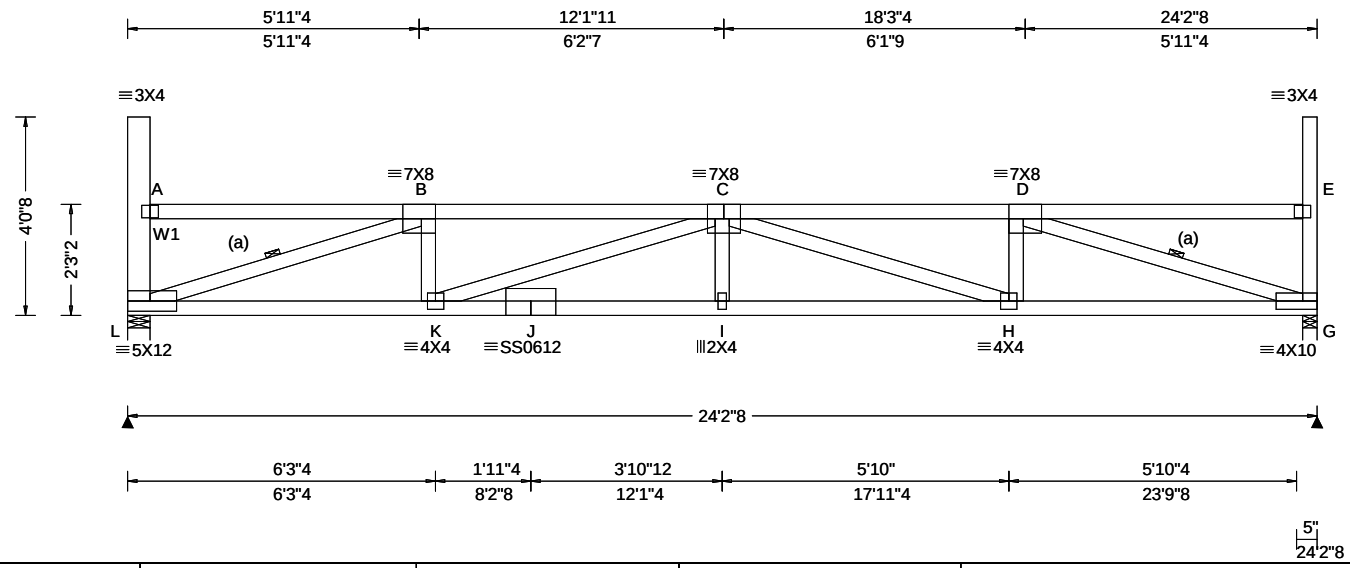
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35479 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T21	Cust: R 9316 JRef:1XfH93160007 T117 DrwNo: 132.22.1629.41546 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.327	I	887	360
VERT(CL): 0.608	I	477	240
HORZ(LL): 0.072	G	-	-
HORZ(TL): 0.134	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.656
Max BC CSI: 0.671
Max Web CSI: 0.824

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1540	/-	/-	/730	/78	/123
G	1552	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	199	- 3860	C - D	187	- 3870

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3748	- 340	I - H	4963	- 286
K - J	4963	- 286	H - G	3757	- 182
J - I	4963	- 286			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	219	- 3851	C - H	128	- 1153
B - K	759	- 1	H - D	773	0
K - C	129	- 1164	D - G	217	- 3902

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.33" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

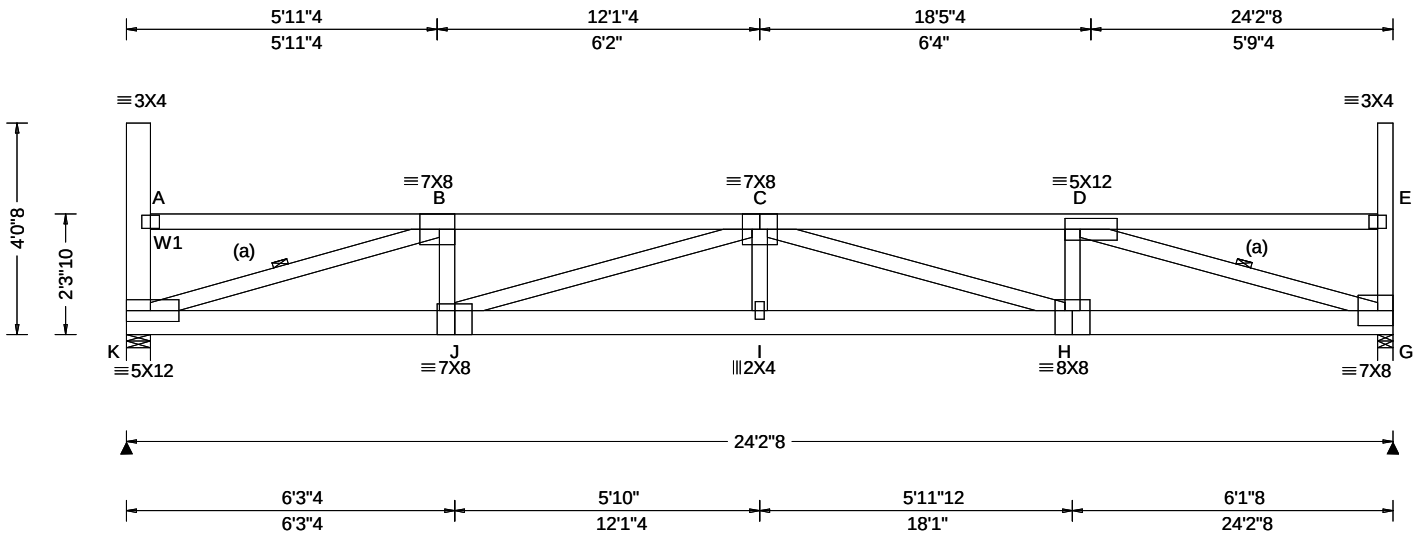
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35480 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T22	Cust: R 9316 JRef:1XfH93160007 T118 DrwNo: 132.22.1642.37653 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.297	I	979	360
VERT(CL): 0.551	I	526	240
HORZ(LL): 0.056	G	-	-
HORZ(TL): 0.103	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.649
Max BC CSI: 0.627
Max Web CSI: 0.824

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1542	/-	/-	/730	/78	/119
G	1553	/-	/-	/736	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.5 (Truss)
G Brg Wid = 3.5 Min Req = 2.5 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	201	- 3888	C - D	189	- 3896

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3776	- 314	I - H	5044	- 276
J - I	5044	- 276	H - G	3783	- 186

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	219	- 3886	C - H	118	- 1208
B - J	748	0	H - D	759	0
J - C	120	- 1218	D - G	218	- 3930

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.74	26.95	5.28
23.92	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

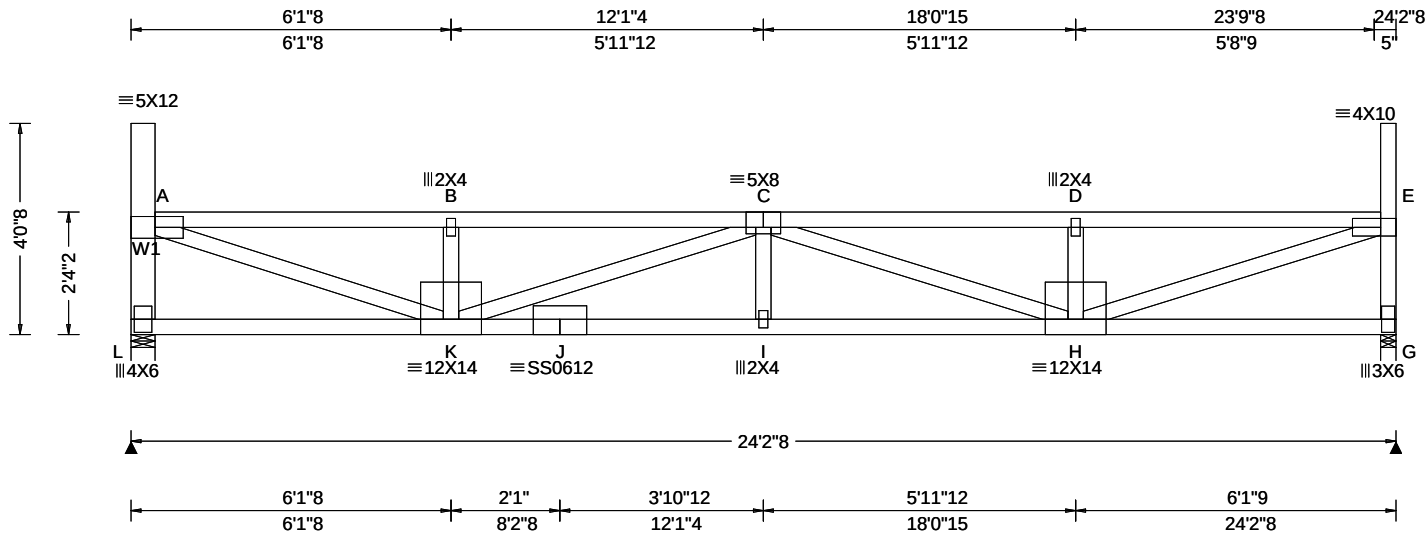
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35481 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T23	Cust: R 9316 JRef:1XfH93160007 T119 DrwNo: 132.22.1629.43745 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.318 I	914	360
VERT(CL):	0.591 I	491	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.100 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.862
Max BC CSI: 0.651
Max Web CSI: 0.924

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/730	/78	/120
G	1553	/-	/-	/736	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	198	- 3686	C - D	184	- 3691
B - C	198	- 3681	D - E	185	- 3696

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4772	- 268	I - H	4772	- 268
J - I	4772	- 268			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	92	- 1372	C - H	111	- 1143
A - K	3690	- 213	H - E	3767	- 212
K - C	114	- 1153	E - G	94	- 1392

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.70	25.57	5.57
23.92	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

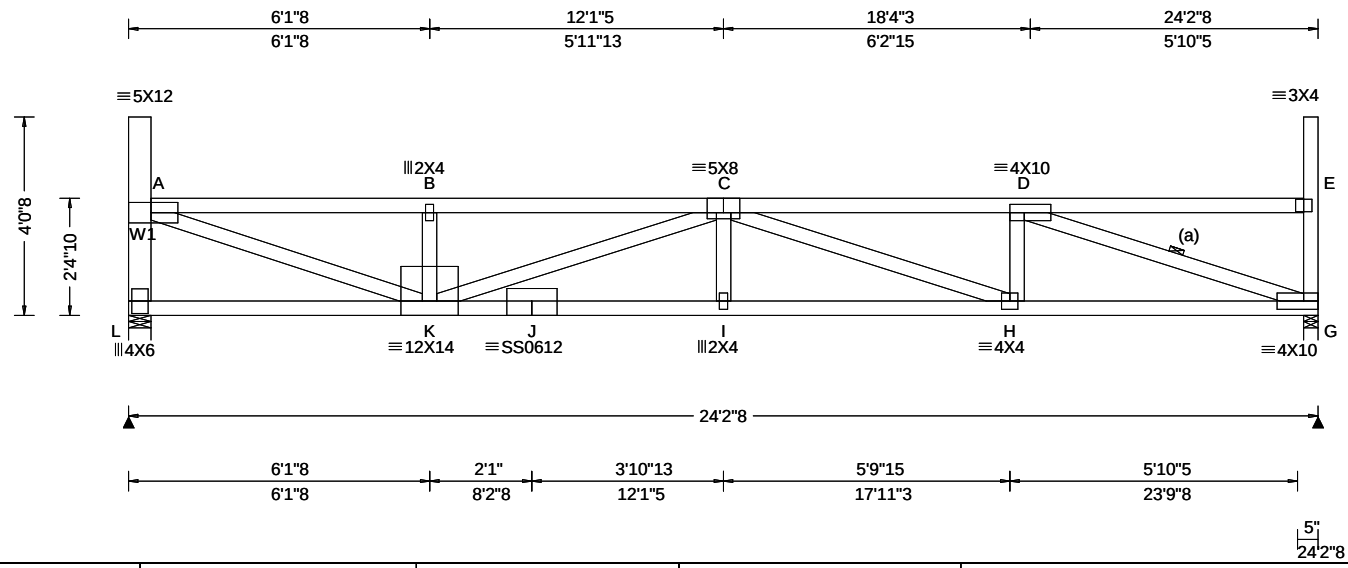
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35482 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T24	Cust: R 9316 JRef:1XfH93160007 T120 DrwNo: 132.22.1629.44199 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.298 I	973	360
VERT(CL):	0.555 I	523	240
HORZ(LL):	0.054 G	-	-
HORZ(TL):	0.100 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.822
Max BC CSI: 0.647
Max Web CSI: 0.890

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/730	/78	/119
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	195	-3615	C - D	177	-3649
B - C	194	-3610			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4678	-265	I - H	4678	-265
J - I	4678	-265	H - G	3542	-176

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	-1373	C - H	111	-1093
A - K	3626	-209	H - D	772	0
K - C	112	-1131	D - G	207	-3704

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.26". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

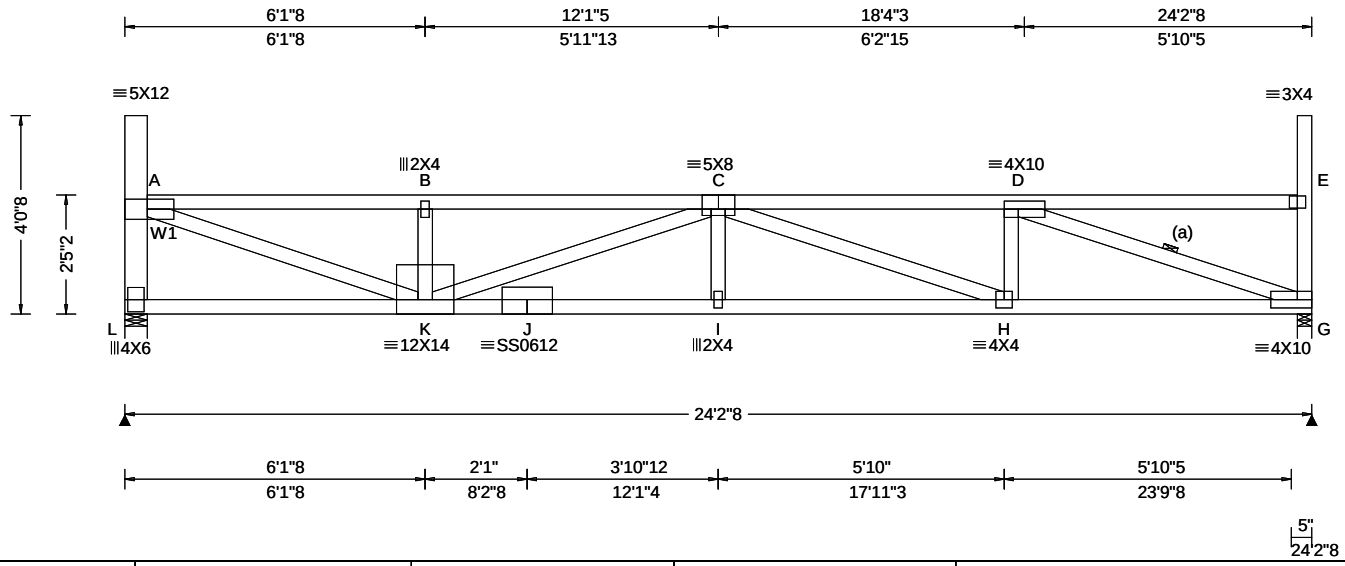
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35483 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T25	Cust: R 9316 JRef:1XfH93160007 T121 DrwNo: 132.22.1629.45487 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.287 I	999	360
VERT(CL):	0.534 I	543	240
HORZ(LL):	0.053 G	-	-
HORZ(TL):	0.098 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.794
Max BC CSI: 0.641
Max Web CSI: 0.874

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/730	/78	/118
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	191	- 3546	C - D	174	- 3579
B - C	191	- 3541			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4586	- 262	I - H	4586	- 262
J - I	4586	- 262	H - G	3475	- 174

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1373	C - H	109	- 1073
A - K	3563	- 205	H - D	772	0
K - C	109	- 1110	D - G	204	- 3641

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.61	22.80	5.50
23.92	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

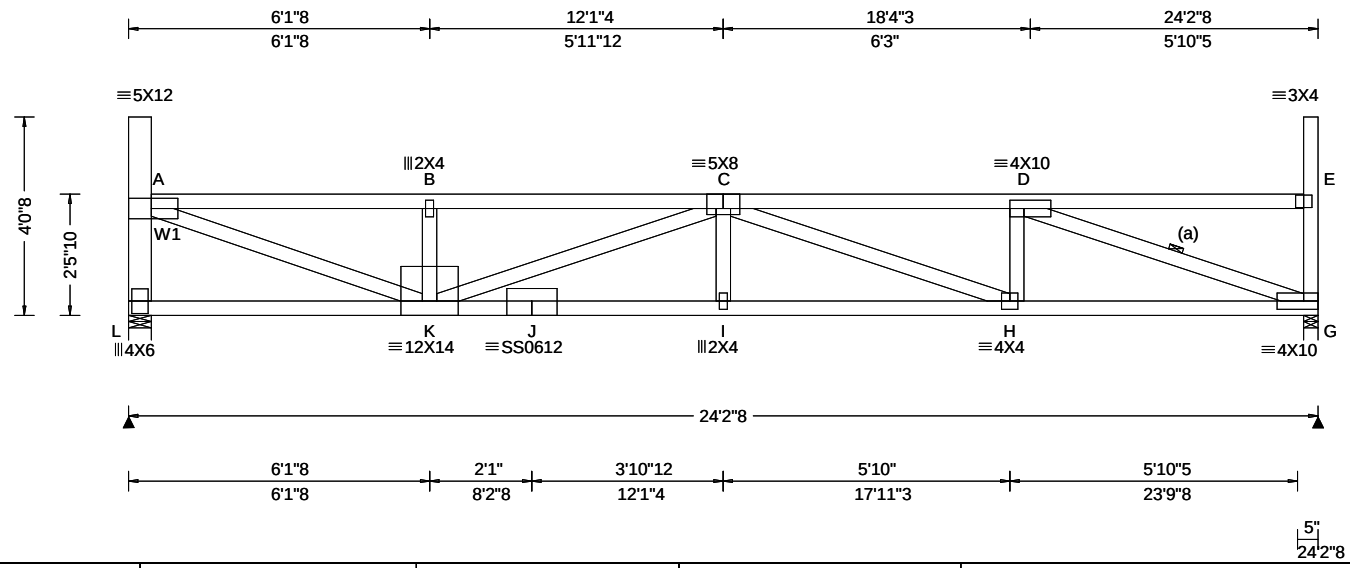
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35484 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T26	Cust: R 9316 JRef:1XfH93160007 T106 DrwNo: 132.22.1629.43508 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.277 I	999	360
VERT(CL):	0.515 I	563	240
HORZ(LL):	0.052 G	-	-
HORZ(TL):	0.096 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.754
Max BC CSI: 0.635
Max Web CSI: 0.860

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/730	/78	/116
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	189	- 3480	C - D	171	- 3512
B - C	188	- 3475			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4501	- 259	I - H	4501	- 259
J - I	4501	- 259	H - G	3410	- 172

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1374	C - H	107	- 1055
A - K	3504	- 202	H - D	772	0
K - C	107	- 1091	D - G	201	- 3582

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

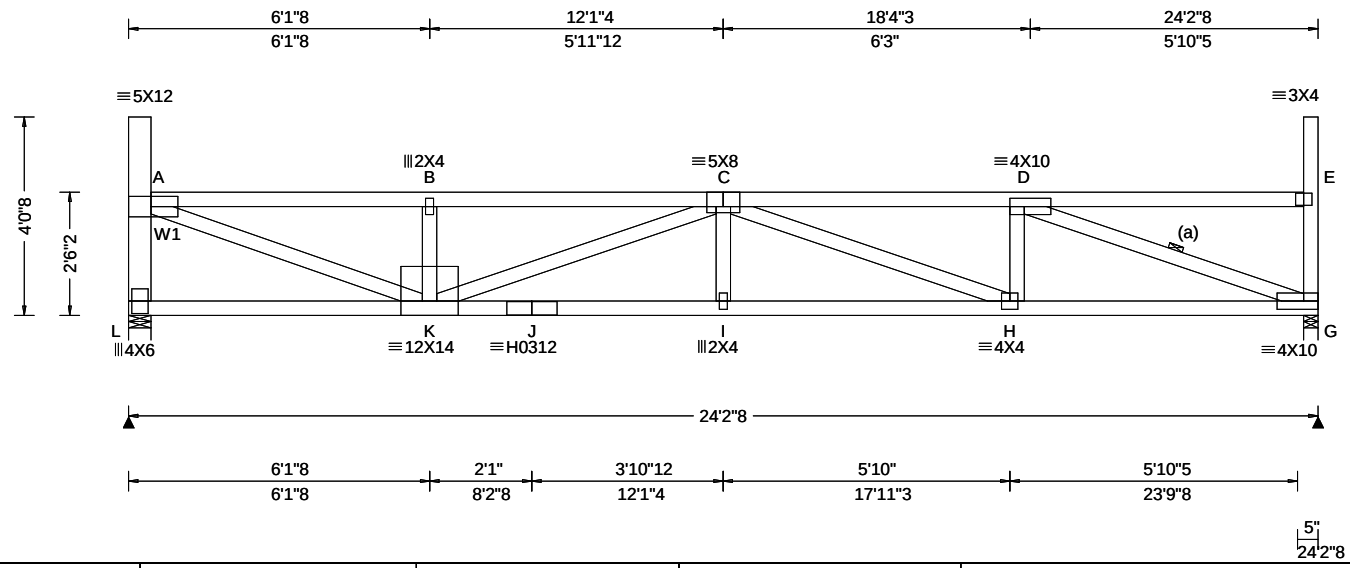
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35485 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T27	Cust: R 9316 JRef:1XfH93160007 T105 DrwNo: 132.22.1629.44320 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.268 I	999	360
VERT(CL):	0.497 I	584	240
HORZ(LL):	0.051 G	-	-
HORZ(TL):	0.094 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.719
Max BC CSI: 0.629
Max Web CSI: 0.846

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/115
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	186	- 3416	C - D	168	- 3448
B - C	185	- 3412			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4417	- 255	I - H	4417	- 255
J - I	4417	- 255	H - G	3347	- 170

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1374	C - H	104	- 1037
A - K	3447	- 198	H - D	772	0
K - C	105	- 1072	D - G	198	- 3524

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

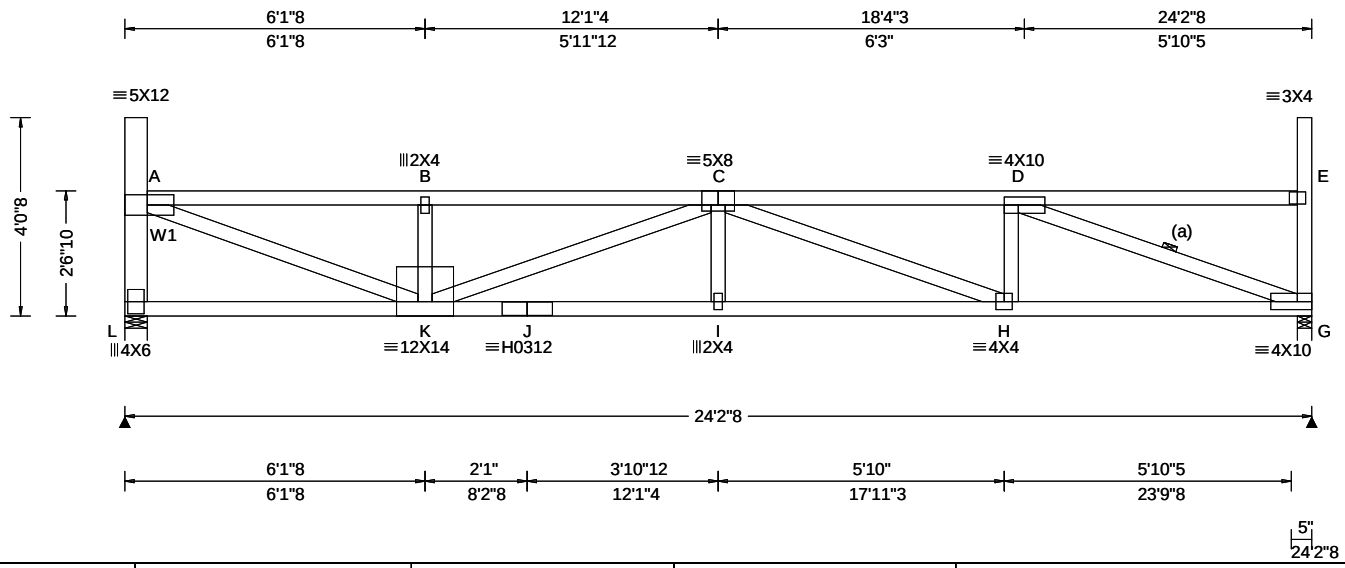
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35486 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T28	Cust: R 9316 JRef:1XfH93160007 T107 DrwNo: 132.22.1629.43240 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.258 I	999	360
VERT(CL):	0.480 I	604	240
HORZ(LL):	0.050 G	-	-
HORZ(TL):	0.093 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.687
Max BC CSI: 0.623
Max Web CSI: 0.832

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/113
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	183	- 3355	C - D	165	- 3386
B - C	182	- 3350			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4336	- 252	I - H	4336	- 252
J - I	4336	- 252	H - G	3287	- 168

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1374	C - H	102	- 1020
A - K	3391	- 195	H - D	772	0
K - C	102	- 1054	D - G	195	- 3469

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

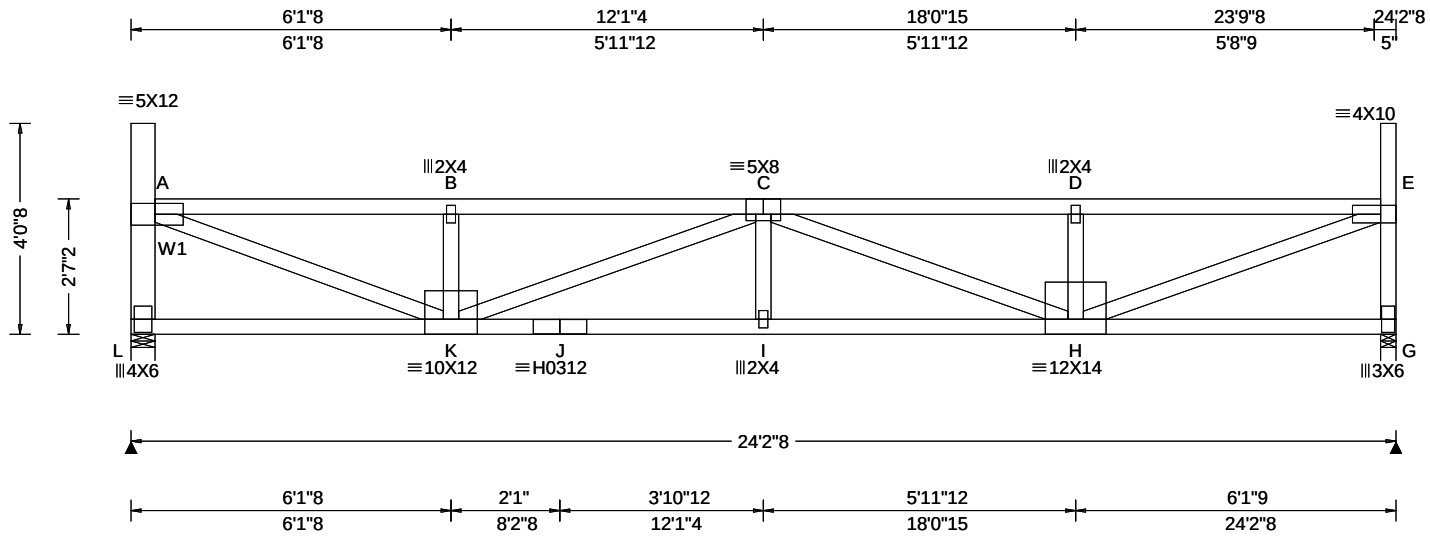
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35487 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T29	Cust: R 9316 JRef:1XfH93160007 T111 DrwNo: 132.22.1629.41786 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.256	I	999	360
VERT(CL): 0.476	I	610	240
HORZ(LL): 0.049	A	-	-
HORZ(TL): 0.090	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.694
Max BC CSI: 0.608
Max Web CSI: 0.836

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/112
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	180	- 3295	C - D	165	- 3299
B - C	180	- 3291	D - E	166	- 3304

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4259	- 248	I - H	4259	- 248
J - I	4259	- 248			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	- 1374	C - H	97	- 1029
A - K	3338	- 192	D - H	77	- 381
B - K	77	- 377	H - E	3407	- 191
K - C	99	- 1038	E - G	95	- 1394

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.45	17.27	4.16
23.92	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

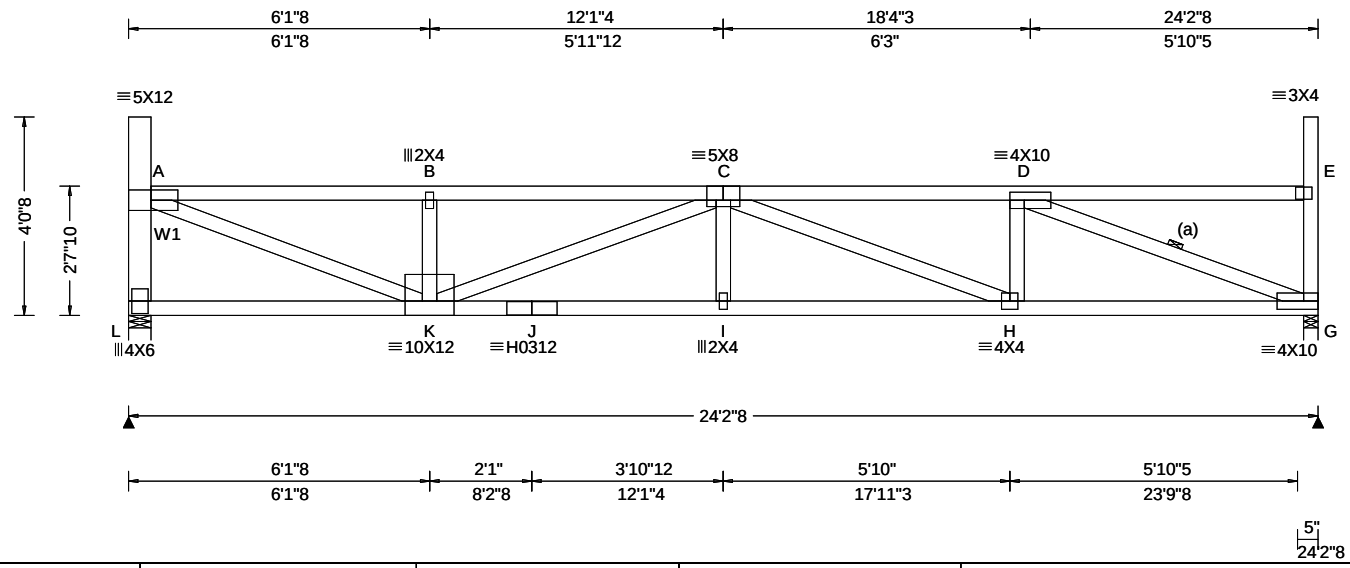
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35488 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T30	Cust: R 9316 JRef:1XfH93160007 T122 DrwNo: 132.22.1629.44658 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.242 I	999	360
VERT(CL):	0.449 I	646	240
HORZ(LL):	0.048 G	-	-
HORZ(TL):	0.089 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.649
Max BC CSI: 0.612
Max Web CSI: 0.806

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/111
G	1553	/-	/-	/735	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	178	-3238	C - D	159	-3267
B - C	177	-3234			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4184	-246	I - H	4184	-246
J - I	4184	-246	H - G	3172	-164

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	-1375	C - H	98	-988
A - K	3287	-188	H - D	772	0
B - K	77	-377	D - G	189	-3364
K - C	98	-1021			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

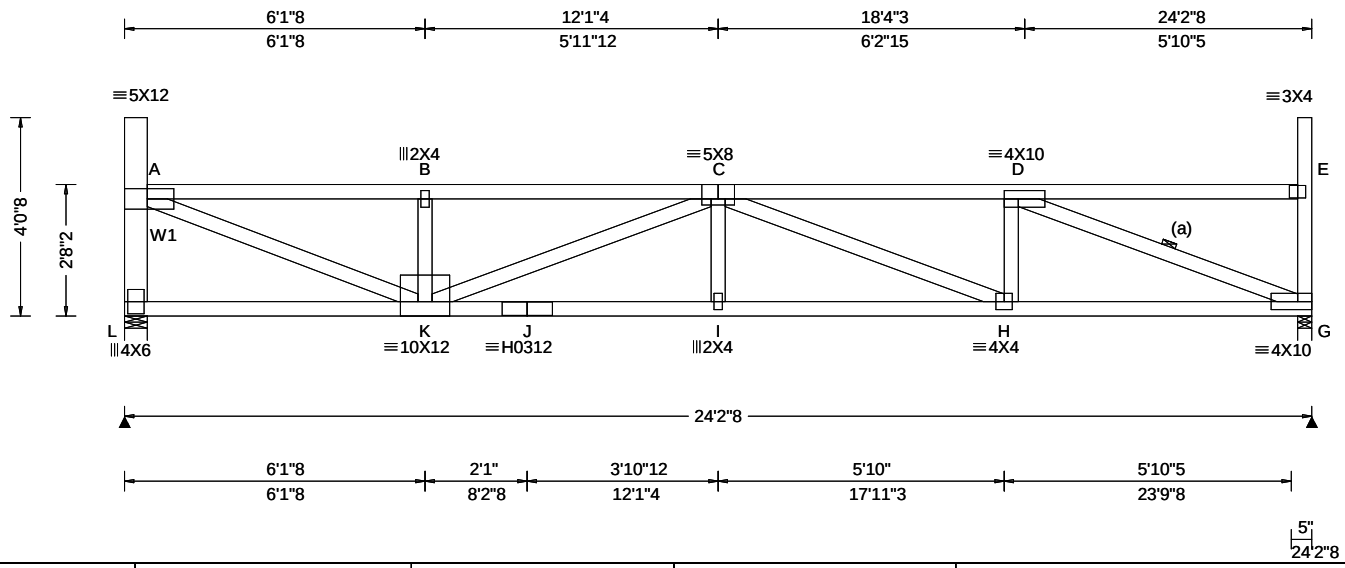
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35489 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T31	Cust: R 9316 JRef:1XfH93160007 T129 DrwNo: 132.22.1629.45098 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.234 I	999	360
VERT(CL):	0.435 I	668	240
HORZ(LL):	0.047 G	-	-
HORZ(TL):	0.088 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.637
Max BC CSI: 0.606
Max Web CSI: 0.794

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/109
G	1553	/-	/-	/735	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	175	-3183	C - D	156	-3211
B - C	174	-3178			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4111	-242	I - H	4111	-242
J - I	4111	-242	H - G	3118	-162

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	-1375	C - H	96	-972
A - K	3237	-185	H - D	772	0
B - K	77	-379	D - G	186	-3314
K - C	96	-1005			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.36	14.50	3.50
23.92	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

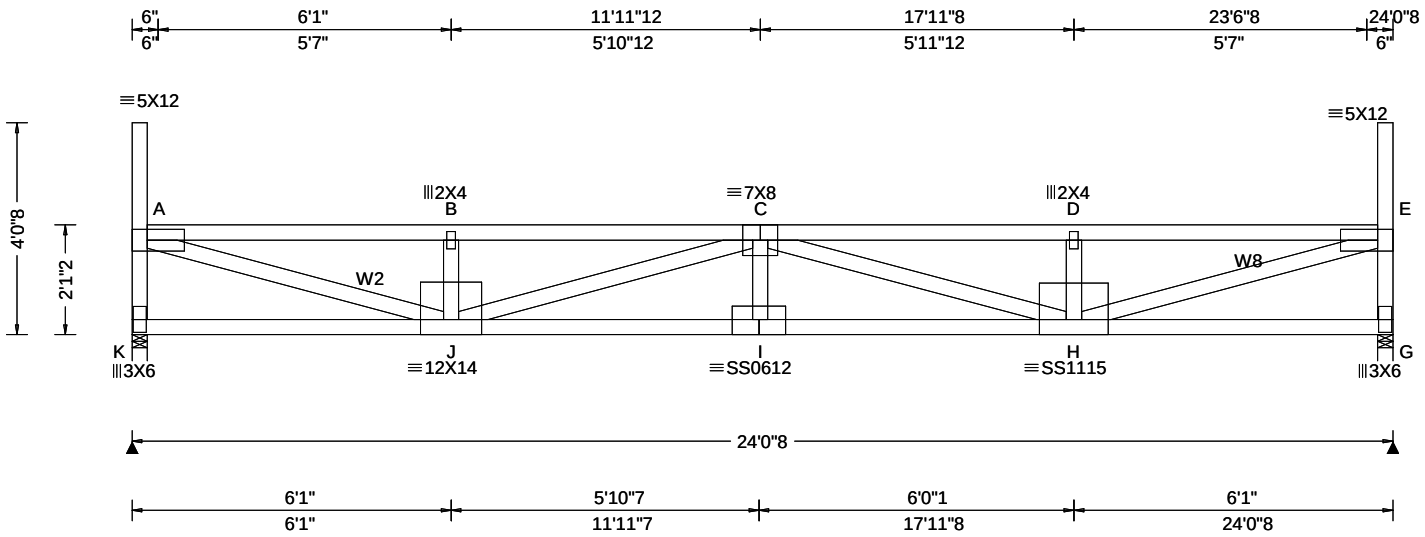
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35490 / FLAT FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T33	Cust: R 9316 JRef:1XfH93160007 T166 DrwNo: 132.22.1629.41666 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.380	I	759	360
VERT(CL): 0.706	I	408	240
HORZ(LL): 0.059	A	-	-
HORZ(TL): 0.110	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.932
Max BC CSI: 0.715
Max Web CSI: 0.844

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/733	/80	/138
G	1542	/-	/-	/733	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	239	- 4139	C - D	239	- 4138
B - C	238	- 4133	D - E	239	- 4143

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5337	- 302	I - H	5337	- 302

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	94	- 1381	C - H	138	- 1252
A - J	4178	- 243	H - E	4183	- 245
J - C	141	- 1258	E - G	94	- 1382

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2,W8 2x4 SPF 2100f-1.8E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.95	33.87	4.20
23.75	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.33". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

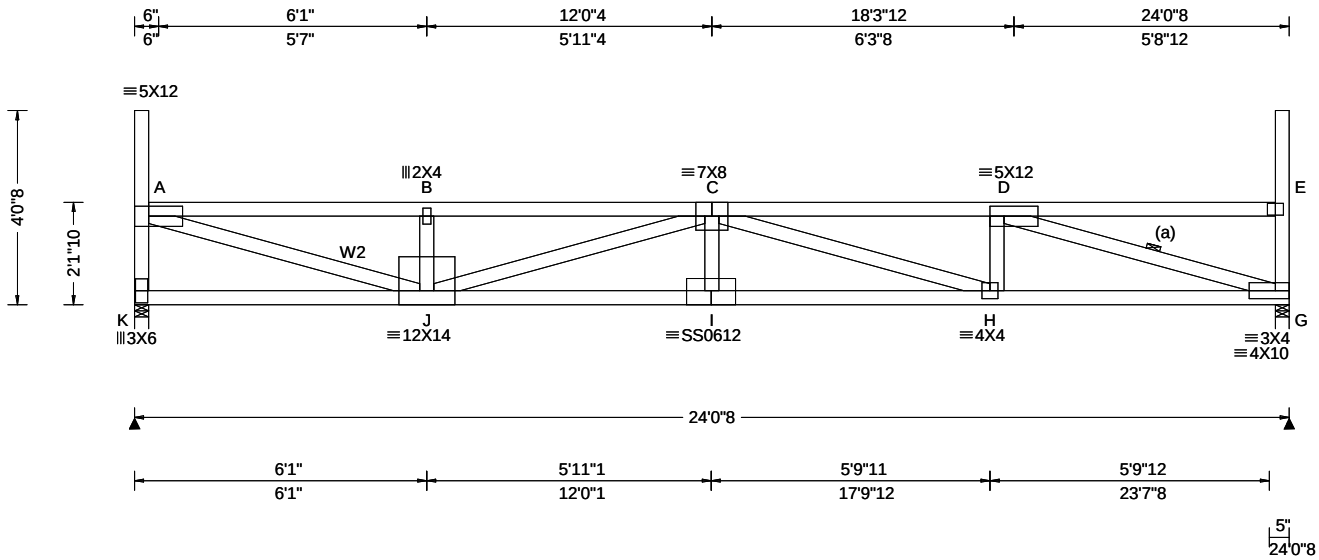
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35492 / FLAT FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T34	Cust: R 9316 JRef:1XfH93160007 T154 DrwNo: 132.22.1629.41408 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.363	I	795	360
VERT(CL): 0.674	I	428	240
HORZ(LL): 0.059	G	-	-
HORZ(TL): 0.110	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.916
Max BC CSI: 0.703
Max Web CSI: 0.849

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1542	/-	/-	/732	/80	/137
G	1542	/-	/-	/732	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	235	- 4051	C - D	231	- 4073
B - C	234	- 4046			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5221	- 298	H - G	3954	- 199
I - H	5221	- 298			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	94	- 1382	C - H	138	- 1205
A - J	4097	- 237	H - D	767	- 1
J - C	139	- 1231	D - G	231	- 4084

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

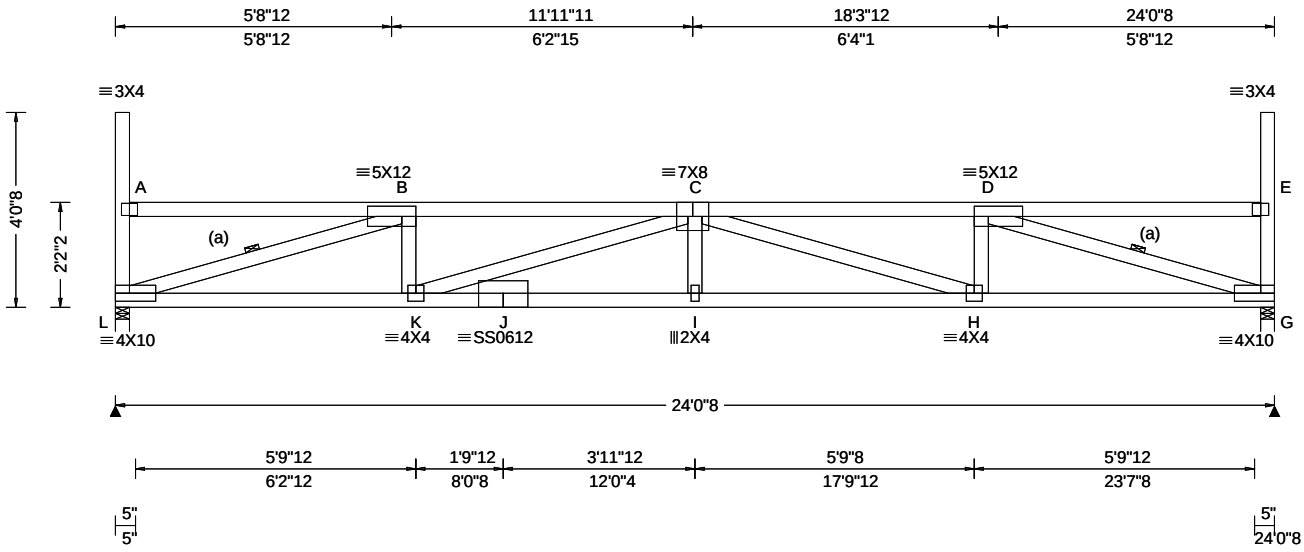
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35494 / FLAT FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T35	Cust: R 9316 JRef:1XfH93160007 T156 DrwNo: 132.22.1629.43657 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.346 I	833	360
VERT(CL):	0.643 I	448	240
HORZ(LL):	0.073 G	-	-
HORZ(TL):	0.136 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.679
Max BC CSI: 0.683
Max Web CSI: 0.833

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/80	/135
G	1541	/-	/-	/732	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	225	- 3982	C - D	225	- 3981

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3864	- 350	I - H	5103	- 291
K - J	5103	- 291	H - G	3864	- 194
J - I	5103	- 291			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	225	- 4000	C - H	134	- 1180
B - K	768	- 1	H - D	767	- 1
K - C	135	- 1179	D - G	225	- 3999

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.35" DL: 0.30". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

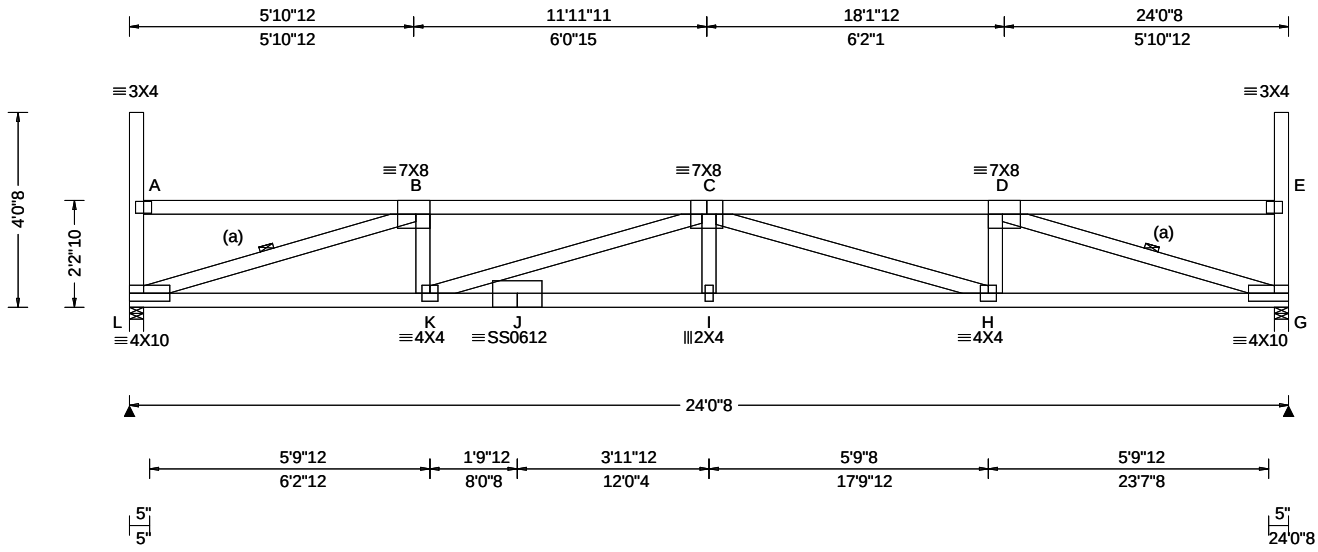
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35496 / FLAT FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T36	Cust: R 9316 JRef:1XfH93160007 T152 DrwNo: 132.22.1629.43189 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.332 I	868	360
VERT(CL):	0.617 I	467	240
HORZ(LL):	0.072 G	-	-
HORZ(TL):	0.134 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.656
Max BC CSI: 0.673
Max Web CSI: 0.820

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/80	/134
G	1541	/-	/-	/732	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	221	-3898	C - D	221	-3897

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3783	-344	I - H	4994	-287
K - J	4994	-287	H - G	3782	-192
J - I	4994	-287			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	221	-3924	C - H	131	-1156
B - K	768	-1	H - D	767	-1
K - C	132	-1155	D - G	221	-3923

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.82	29.72	4.79
23.75	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.33" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

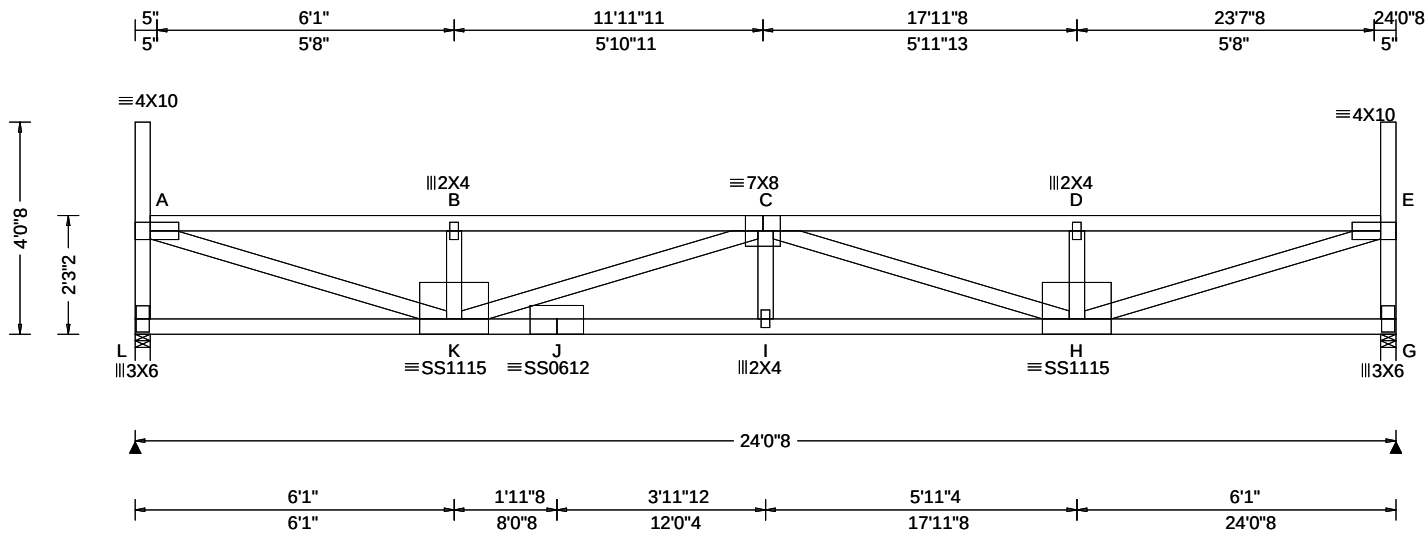
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35498 / FLAT FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T37	Cust: R 9316 JRef:1XfH93160007 T160 DrwNo: 132.22.1629.43041 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.336 I	859	360
VERT(CL):	0.624 I	462	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.101 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.869
Max BC CSI: 0.662
Max Web CSI: 0.945

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/80	/133
G	1541	/-	/-	/732	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	199	- 3791	C - D	198	- 3785
B - C	198	- 3786	D - E	198	- 3790

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4892	- 281	I - H	4892	- 281
J - I	4892	- 281			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	- 1381	C - H	123	- 1166
A - K	3851	- 220	H - E	3850	- 221
K - C	127	- 1165	E - G	94	- 1380

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.78	28.34	5.03
23.75	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

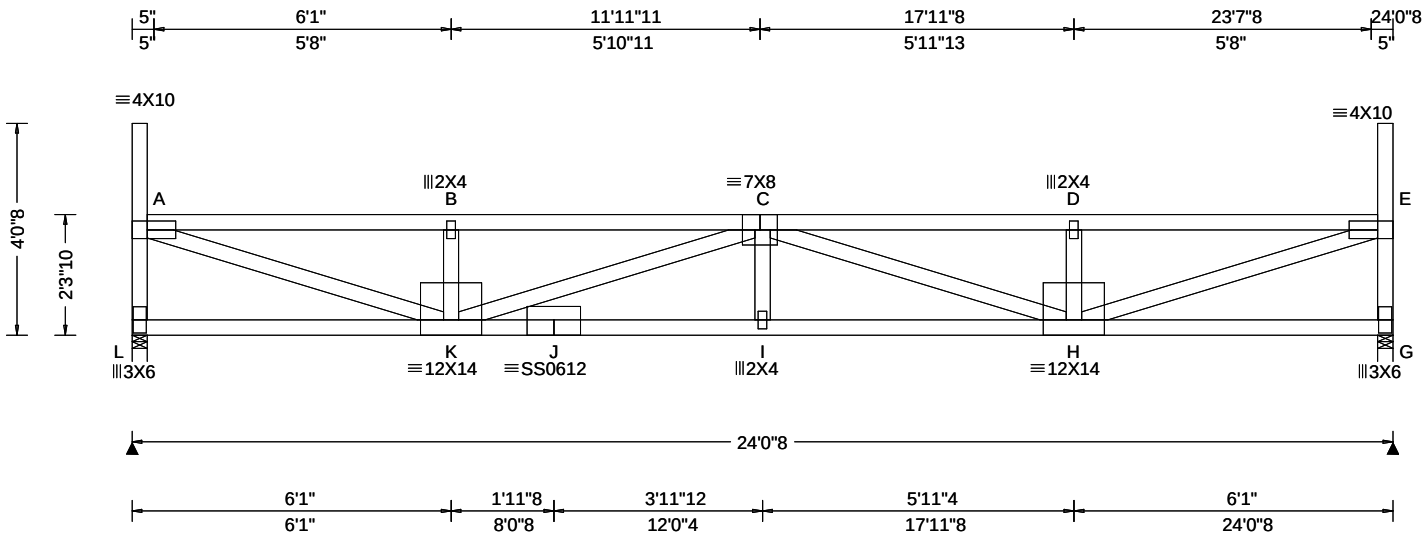
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35500 / FLAT FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T38	Cust: R 9316 JRef:1XfH93160007 T162 DrwNo: 132.22.1629.42023 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.323 I	893	360
VERT(CL):	0.600 I	480	240
HORZ(LL):	0.053 A	-	-
HORZ(TL):	0.099 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.854
Max BC CSI: 0.652
Max Web CSI: 0.928

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/80	/132
G	1541	/-	/-	/732	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	195	- 3715	C - D	194	- 3709
B - C	194	- 3710	D - E	195	- 3714

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4792	- 275	I - H	4792	- 275
J - I	4792	- 275			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	- 1381	C - H	112	- 1143
A - K	3781	- 216	H - E	3780	- 217
K - C	115	- 1142	E - G	94	- 1381

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.74	26.95	5.28
23.75	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

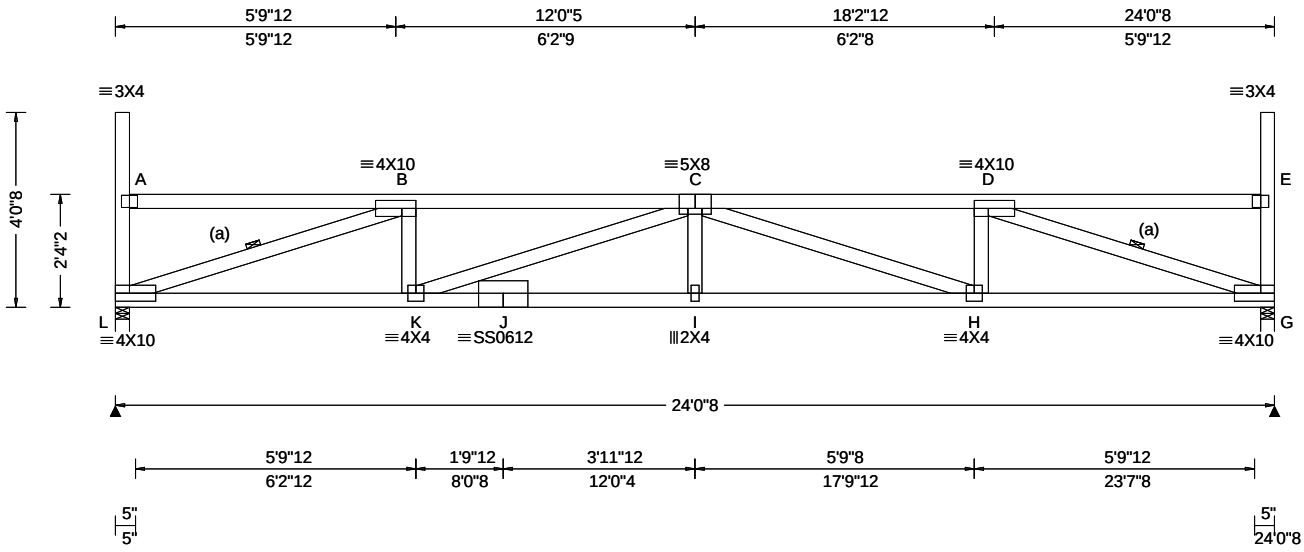
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35502 / FLAT FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T39	Cust: R 9316 JRef:1XfH93160007 T158 DrwNo: 132.22.1629.42244 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.296 I	976	360
VERT(CL):	0.549 I	525	240
HORZ(LL):	0.068 G	-	-
HORZ(TL):	0.126 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.598
Max BC CSI: 0.650
Max Web CSI: 0.783

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/81	/131
G	1542	/-	/-	/732	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	188	-3671	C - D	189	-3670

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3563	-308	I - H	4703	-276
K - J	4703	-276	H - G	3562	-187
J - I	4703	-276			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	212	-3721	C - H	115	-1096
B - K	769	0	H - D	769	0
K - C	116	-1095	D - G	211	-3719

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.70	25.57	5.57
23.75	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

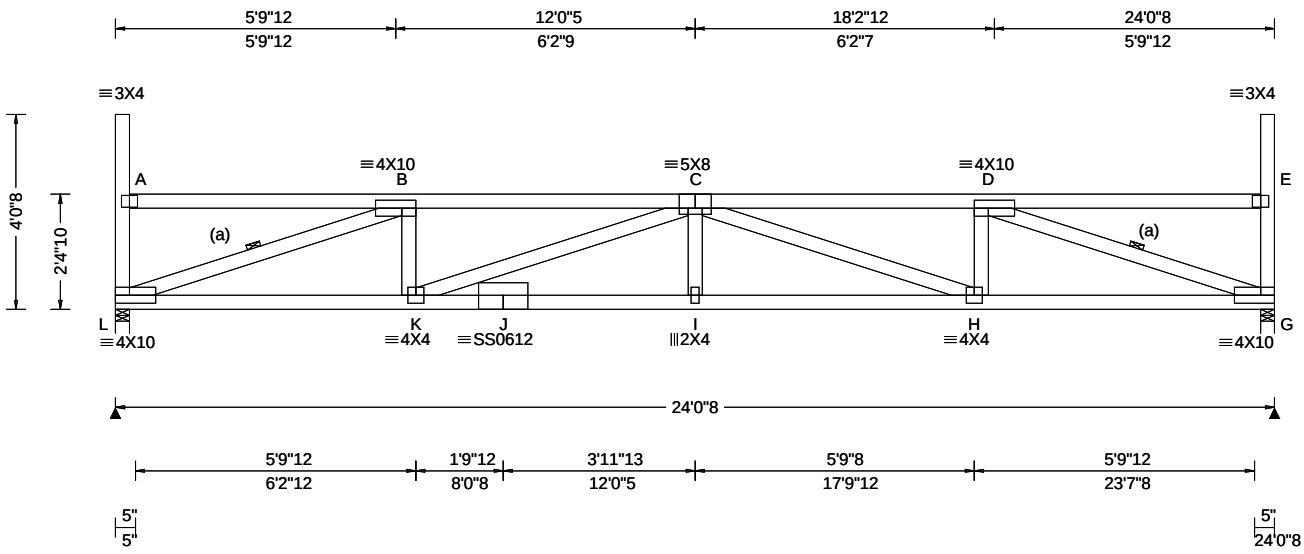
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35504 / FLAT FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T40	Cust: R 9316 JRef:1XfH93160007 T155 DrwNo: 132.22.1629.43669 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.285 I	999	360
VERT(CL):	0.529 I	545	240
HORZ(LL):	0.066 G	-	-
HORZ(TL):	0.123 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.583
Max BC CSI: 0.643
Max Web CSI: 0.772

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/81	/129
G	1542	/-	/-	/732	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	185	-3600	C - D	185	-3598

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3494	-304	I - H	4611	-272
K - J	4611	-272	H - G	3492	-185
J - I	4611	-272			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	208	-3657	C - H	112	-1077
B - K	769	0	H - D	769	0
K - C	114	-1075	D - G	208	-3655

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

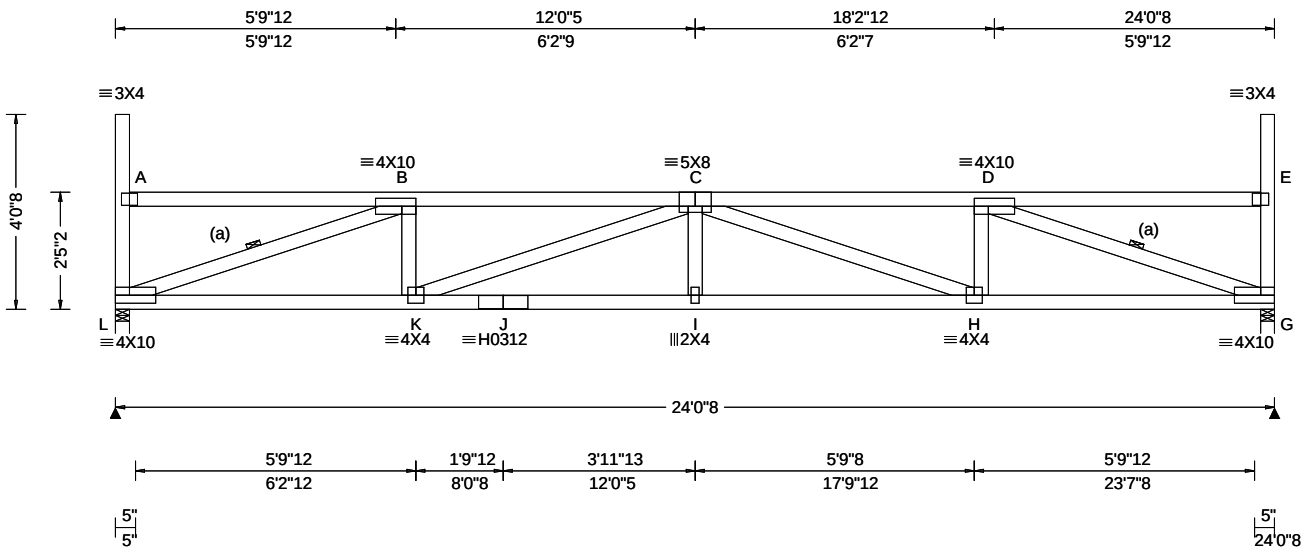
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35506 / FLAT FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T41	Cust: R 9316 JRef:1XfH93160007 T151 DrwNo: 132.22.1629.43327 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.274 I	999	360
VERT(CL):	0.510 I	565	240
HORZ(LL):	0.065 G	-	-
HORZ(TL):	0.121 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.568
Max BC CSI: 0.637
Max Web CSI: 0.761

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/81	/128
G	1542	/-	/-	/732	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	182	- 3531	C - D	182	- 3530

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3427	- 299	I - H	4522	- 268
K - J	4522	- 268	H - G	3426	- 184
J - I	4522	- 268			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	205	- 3595	C - H	110	- 1058
B - K	769	0	H - D	769	0
K - C	111	- 1056	D - G	205	- 3594

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

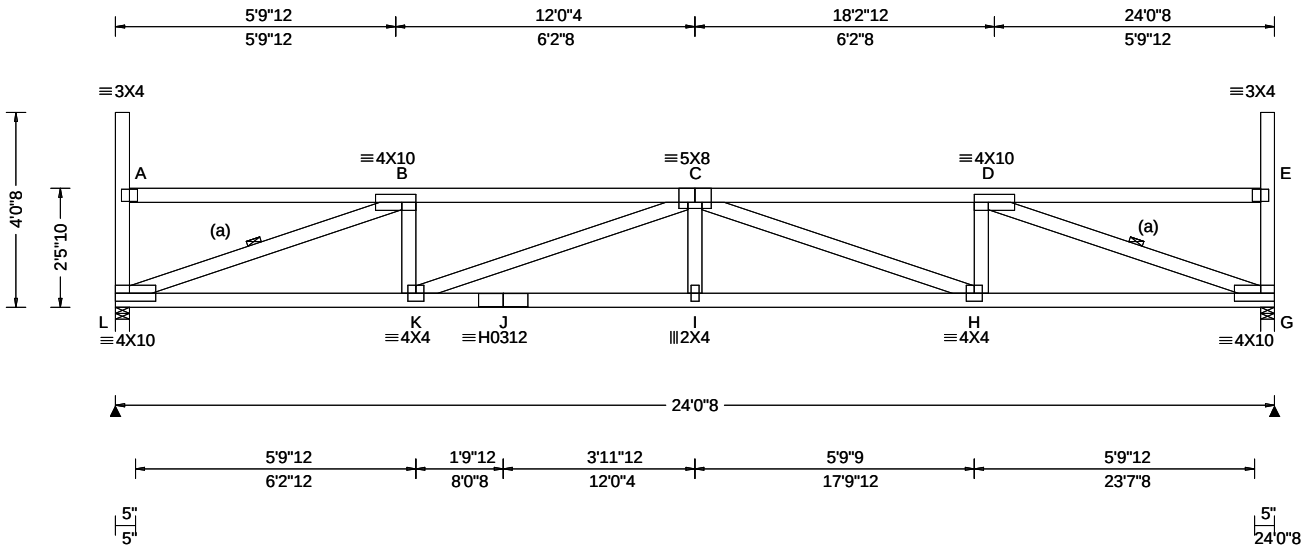
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35508 / FLAT FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T42	Cust: R 9316 JRef:1XfH93160007 T164 DrwNo: 132.22.1629.42377 / NDW 05/12/2022



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL:	15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.265 I 999 360
BCLL:	15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.492 I 586 240
BCDL:	15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.064 G - -
Des Ld:	65.00	EXP: B Kzt: NA		HORZ(TL): 0.119 G - -
NCBCLL:	0.00	Mean Height: 21.47 ft	Building Code:	Creep Factor: 2.0
Soffit:	2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.553
Load Duration:	1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.631
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.751
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
		Loc. from endwall: not in 14.50 ft	Plate Type(s):	
		GCpi: 0.18	WAVE, HS	VIEW Ver: 21.02.00.1005.17
		Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/81	/127
G	1542	/-	/-	/732	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	179	-3465	C - D	179	-3464

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3363	-294	I - H	4437	-265
K - J	4437	-265	H - G	3362	-182
J - I	4437	-265			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	202	-3536	C - H	108	-1039
B - K	769	0	H - D	769	0
K - C	109	-1038	D - G	201	-3535

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.57	21.42	5.16
23.75	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

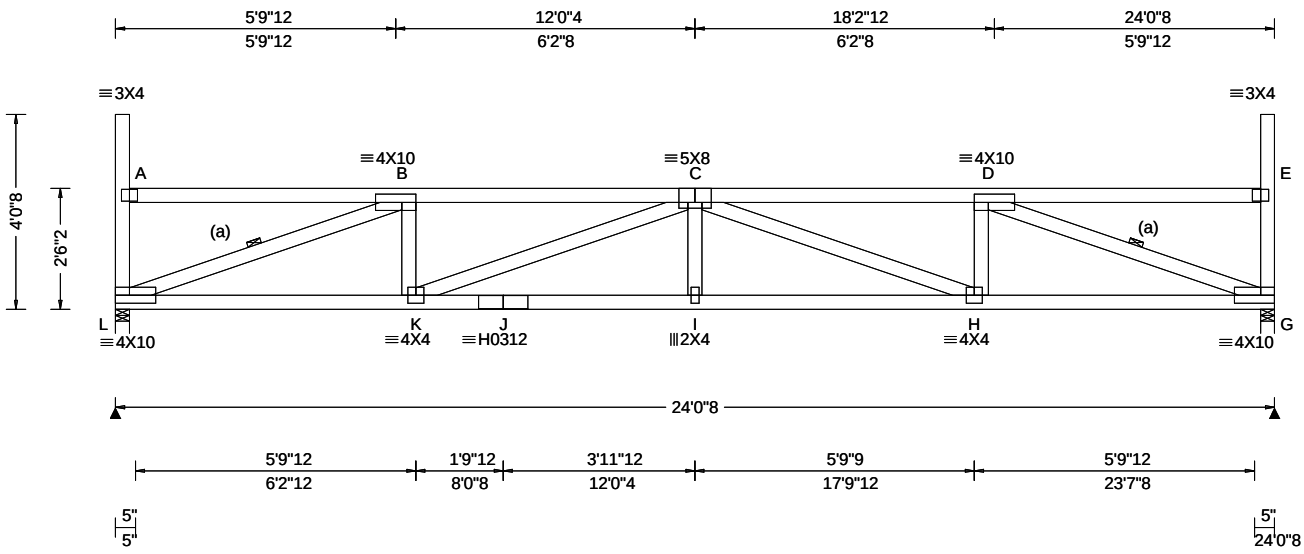
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35510 / FLAT FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T43	Cust: R 9316 JRef:1XfH93160007 T161 DrwNo: 132.22.1629.41944 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.255 I	999	360
VERT(CL):	0.475 I	607	240
HORZ(LL):	0.063 G	-	-
HORZ(TL):	0.116 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.540
Max BC CSI: 0.625
Max Web CSI: 0.741

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/81	/126
G	1542	/-	/-	/731	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	176	-3401	C - D	177	-3400

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3301	-289	I - H	4354	-261
K - J	4354	-261	H - G	3300	-180
J - I	4354	-261			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	199	-3479	C - H	105	-1022
B - K	769	0	H - D	769	0
K - C	106	-1021	D - G	198	-3478

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.53	20.04	4.83
23.75	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

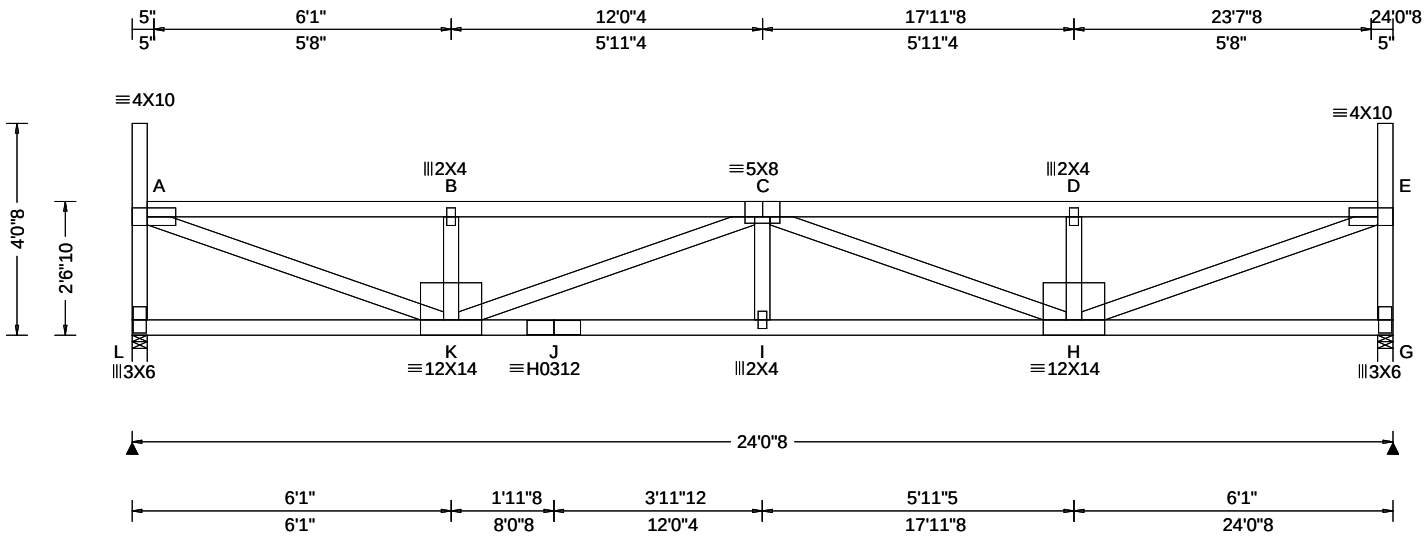
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35512 / FLAT FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T44	Cust: R 9316 JRef:1XfH93160007 T143 DrwNo: 132.22.1629.43718 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.260 I	999	360
VERT(CL):	0.482 I	597	240
HORZ(LL):	0.048 A	-	-
HORZ(TL):	0.089 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.693
Max BC CSI: 0.608
Max Web CSI: 0.838

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/82	/125
G	1542	/-	/-	/731	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	178	- 3318	C - D	177	- 3312
B - C	177	- 3313	D - E	178	- 3317

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4276	- 256	I - H	4276	- 256
J - I	4276	- 256			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	96	- 1385	C - H	99	- 1032
A - K	3417	- 196	D - H	77	- 376
B - K	77	- 376	H - E	3416	- 197
K - C	102	- 1030	E - G	96	- 1385

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.49	18.65	4.50
23.75	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

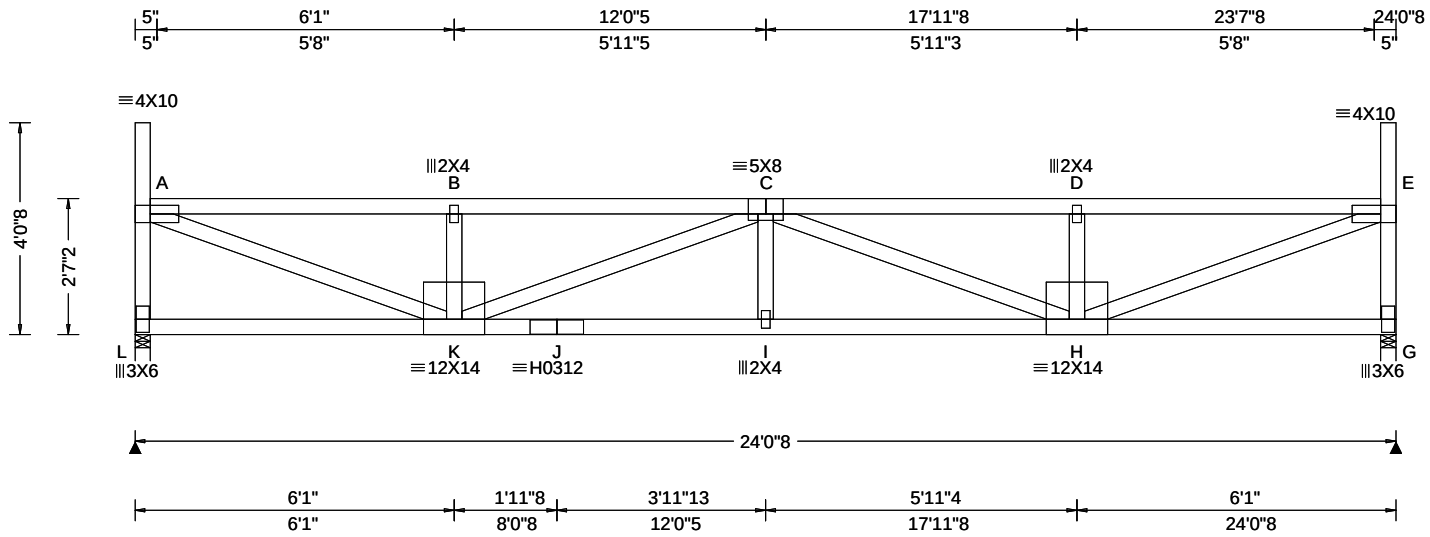
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35514 / FLAT FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T45	Cust: R 9316 JRef:1XfH93160007 T153 DrwNo: 132.22.1629.41521 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.251	I	999	360
VERT(CL): 0.466	I	618	240
HORZ(LL): 0.047	A	-	-
HORZ(TL): 0.088	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.676
Max BC CSI: 0.602
Max Web CSI: 0.825

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/82	/124
G	1542	/-	/-	/731	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	175	-3260	C - D	174	-3253
B - C	175	-3255	D - E	175	-3258

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4200	-253	I - H	4200	-253
J - I	4200	-253			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	96	-1385	C - H	97	-1015
A - K	3364	-193	D - H	77	-378
B - K	77	-378	H - E	3362	-194
K - C	100	-1013	E - G	96	-1385

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.45	17.27	4.16
23.75	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

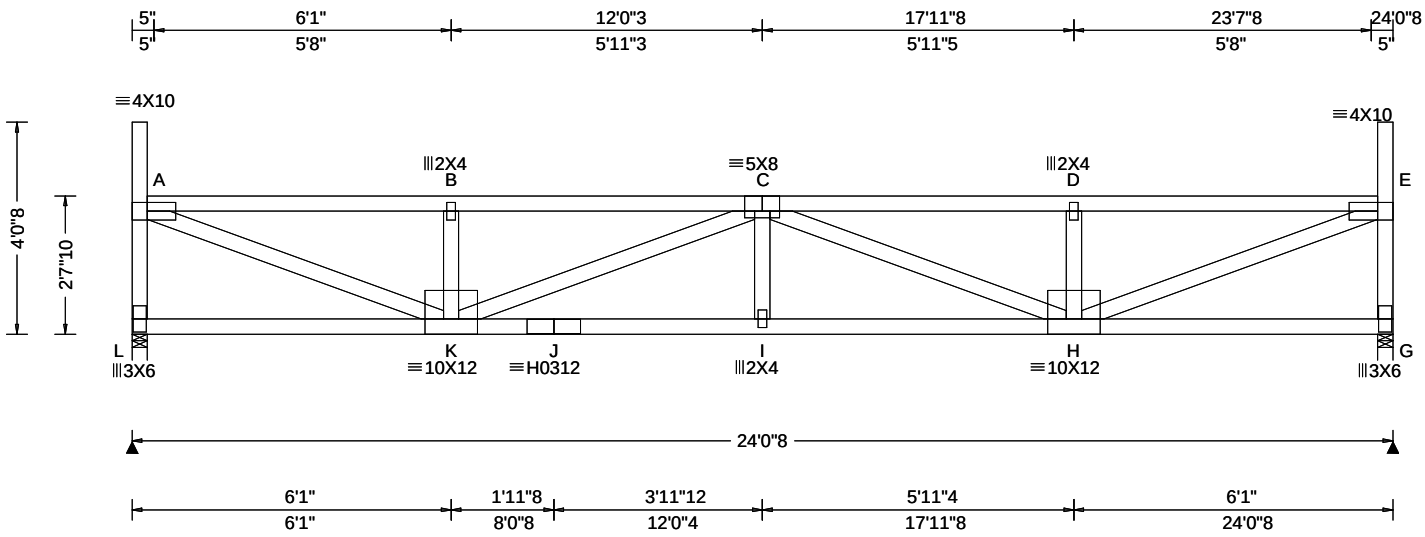
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35516 / FLAT FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T46	Cust: R 9316 JRef:1XfH93160007 T148 DrwNo: 132.22.1629.39214 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.243	I	999	360
VERT(CL): 0.451	I	639	240
HORZ(LL): 0.046	A	-	-
HORZ(TL): 0.086	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.663
Max BC CSI: 0.597
Max Web CSI: 0.813

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/82	/122
G	1542	/-	/-	/731	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	173	- 3203	C - D	172	- 3197
B - C	172	- 3198	D - E	172	- 3202

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4125	- 249	I - H	4125	- 249
J - I	4125	- 249			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	96	- 1385	C - H	95	- 997
A - K	3311	- 190	H - E	3311	- 191
B - K	77	- 380	D - H	77	- 380
K - C	97	- 997	E - G	96	- 1385

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.41	15.89	3.83
23.75	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

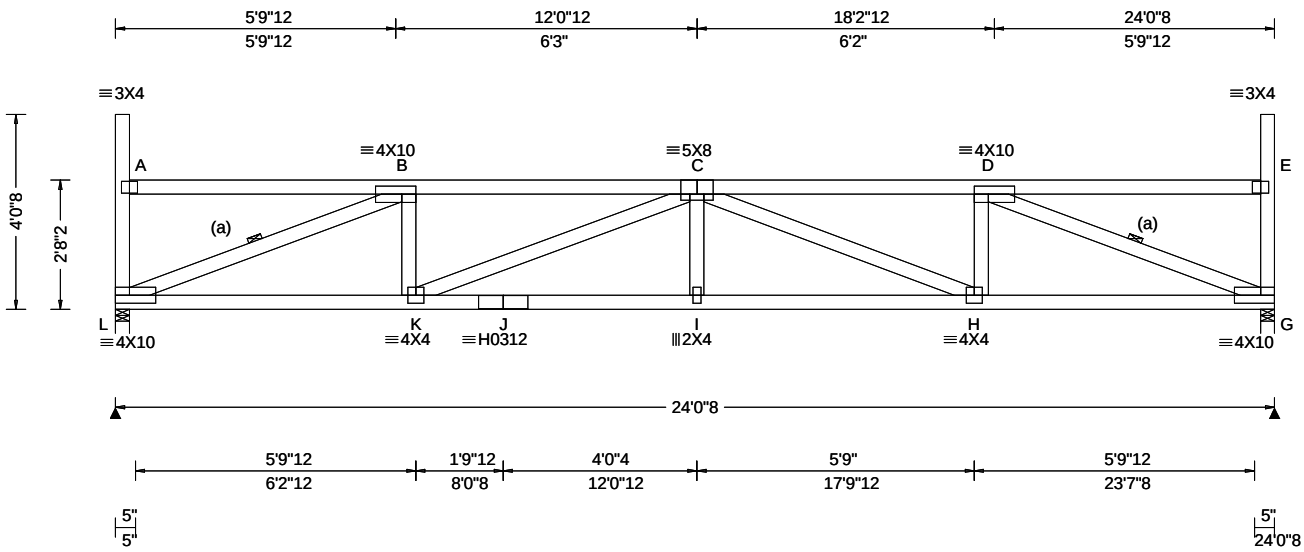
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35518 / FLAT FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T47	Cust: R 9316 JRef:1XfH93160007 T163 DrwNo: 132.22.1629.41439 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.223 I	999	360
VERT(CL):	0.415 I	694	240
HORZ(LL):	0.058 G	-	-
HORZ(TL):	0.108 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.516
Max BC CSI: 0.604
Max Web CSI: 0.706

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/82	/121
G	1542	/-	/-	/731	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	166	-3169	C - D	166	-3166

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3076	-272	I - H	4053	-248
K - J	4053	-248	H - G	3073	-173
J - I	4053	-248			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	188	-3274	C - H	96	-960
B - K	768	0	H - D	770	0
K - C	98	-955	D - G	187	-3270

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.22" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

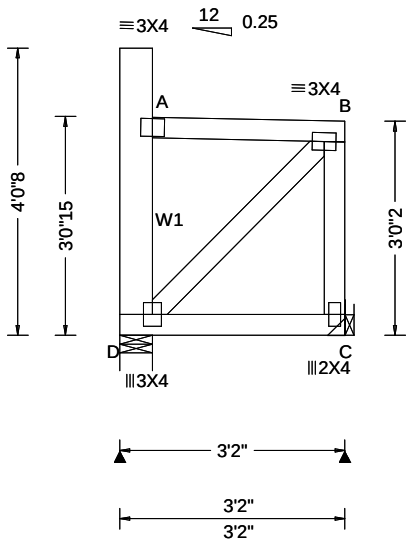
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35520 / MONO FROM:	Ply: 1 Qty: 17	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48	Cust: R 9316 JRef:1XfH93160007 T139 DrwNo: 132.22.1629.43389 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.04 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.001	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.139
Max BC CSI: 0.123
Max Web CSI: 0.028

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	176	/-	/-	/111	/52	/78
C	204	/-	/-	/149	/46	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

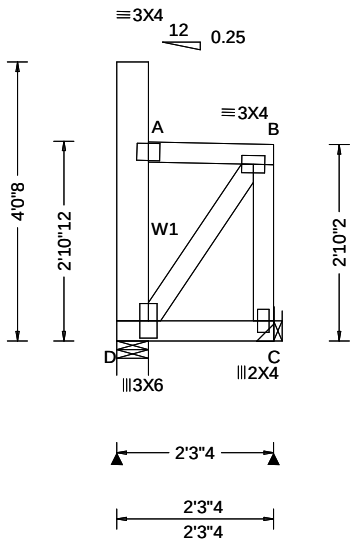
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35522 / MONO FROM:	Ply: 1 Qty: 48	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T49	Cust: R 9316 JRef:1XfH93160007 T230 DrwNo: 132.22.1629.42283 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.87 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.065
Max BC CSI: 0.063
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	119	/-	/-	/98	/77	/80
C	144	/-	/-	/147	/60	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

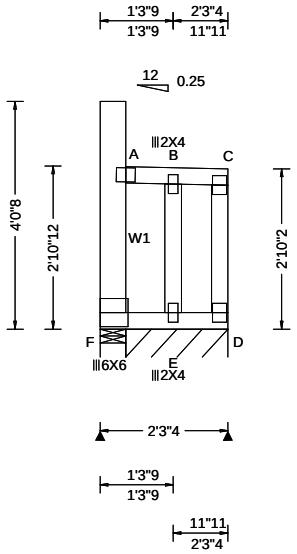
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35523 / MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T50	Cust: R 9316 JRef:1XfH93160007 T128 DrwNo: 132.22.1629.41690 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.87 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.006	A	999	360
VERT(CL): 0.008	A	999	240
HORZ(LL): 0.111	B	-	-
HORZ(TL): 0.128	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.110
Max BC CSI: 0.254
Max Web CSI: 0.115

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	36	/-8	/-	/96	/138	/80
D*	139	/-	/-	/141	/57	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 21.7 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

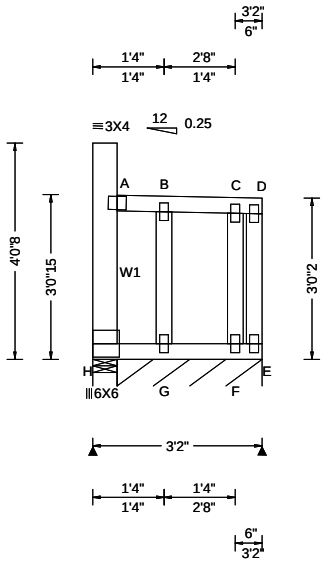
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35524 / GABL FROM:	Ply: 1 Qty: 9	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T51	Cust: R 9316 JRef:1XfH93160007 T114 DrwNo: 132.22.1629.42952 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.04 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.007 A	999	360
VERT(CL):	0.009 A	999	240
HORZ(LL):	0.121 C	-	-
HORZ(TL):	0.142 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.087
Max BC CSI: 0.243
Max Web CSI: 0.109

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	47	/-	/-	/122	/130	/90
E*	123	/-	/-	/106	/43	/-

Wind reactions based on MWFRS
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 32.5 Min Req = -
Bearings H & H are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

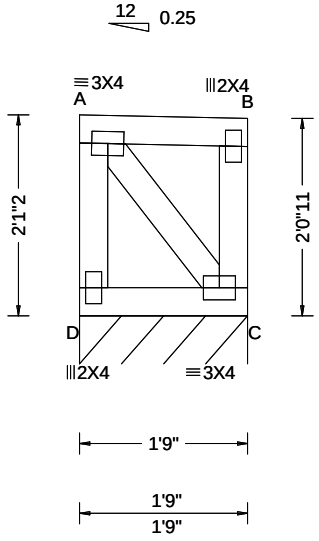
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35527 / MONO FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE01	Cust: R 9316 JRef:1XfH93160007 T188 DrwNo: 132.22.1629.45561 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.08 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.046
Max BC CSI: 0.039
Max Web CSI: 0.021

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 21.0 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

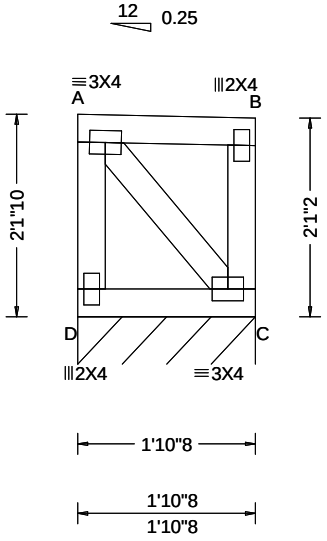
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35528 / MONO FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE02	Cust: R 9316 JRef:1XfH93160007 T189 DrwNo: 132.22.1629.44764 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.12 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.022

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/18

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

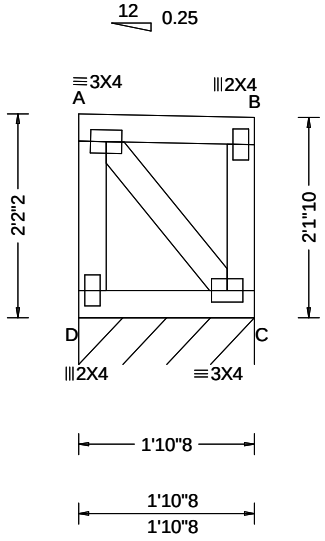
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35529 / MONO FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE03	Cust: R 9316 JRef:1XfH93160007 T190 DrwNo: 132.22.1629.46193 / NDW 05/12/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.16 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.023 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

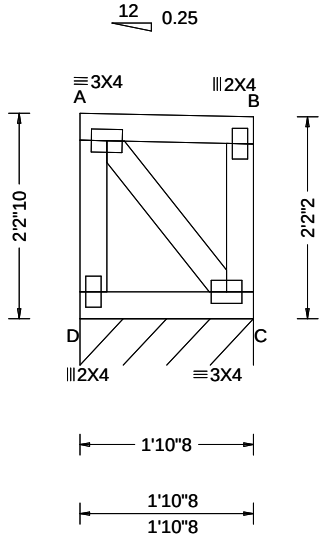
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35530 / MONO FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE04	Cust: R 9316 JRef:1XfH93160007 T192 DrwNo: 132.22.1629.46314 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.20 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.024

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

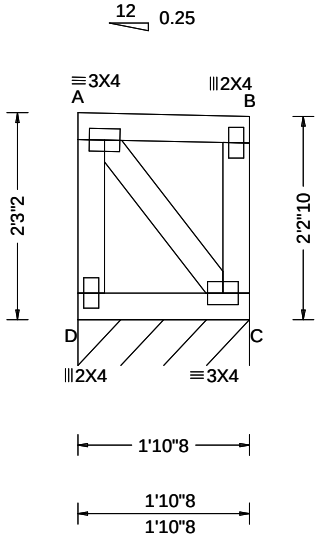
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35531 / MONO FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE05	Cust: R 9316 JRef:1XfH93160007 T215 DrwNo: 132.22.1629.42035 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.24 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.025

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

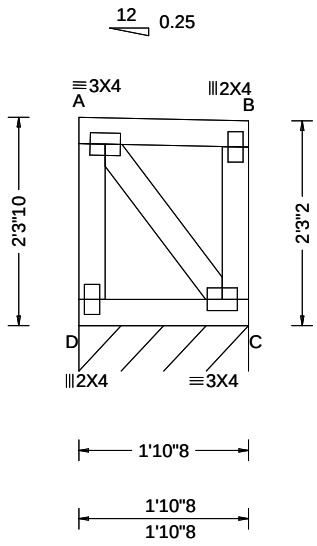
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35532 / MONO FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE06	Cust: R 9316 JRef:1XfH93160007 T219 DrwNo: 132.22.1629.41699 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.28 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.026

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

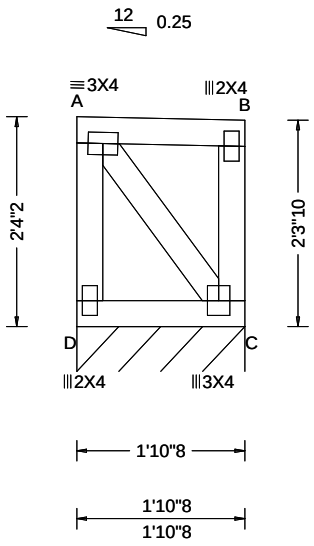
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35533 / MONO FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE07	Cust: R 9316 JRef:1XfH93160007 T220 DrwNo: 132.22.1629.39215 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.32 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.027

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

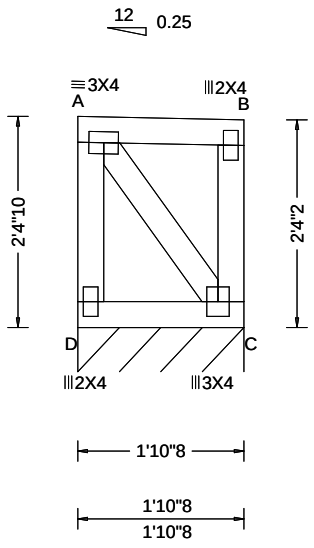
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35534 / MONO FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE08	Cust: R 9316 JRef:1XfH93160007 T221 DrwNo: 132.22.1629.46491 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.028

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

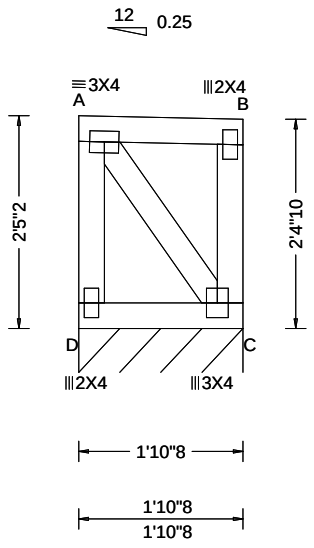
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35535 / MONO FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE09	Cust: R 9316 JRef:1XfH93160007 T222 DrwNo: 132.22.1629.44992 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.41 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.029

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

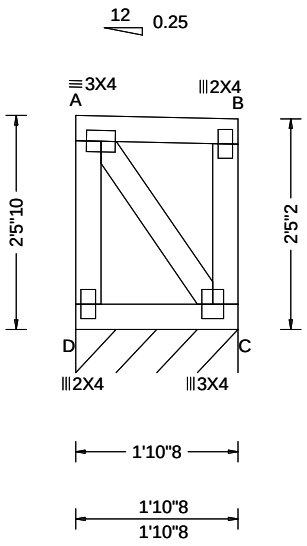
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35536 / MONO FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE10	Cust: R 9316 JRef:1XfH93160007 T223 DrwNo: 132.22.1629.44257 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.45 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.031

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

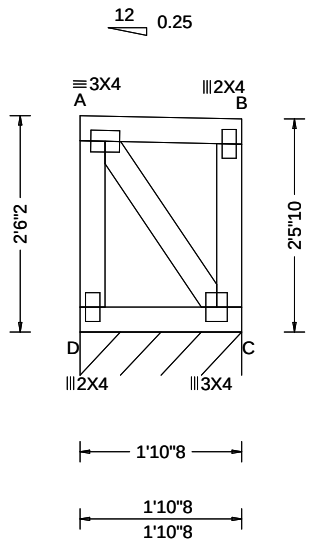
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35537 / MONO FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE11	Cust: R 9316 JRef:1XfH93160007 T224 DrwNo: 132.22.1629.43081 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.49 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.032

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

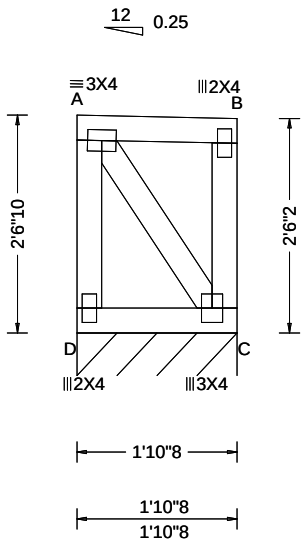
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35538 / MONO FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE12	Cust: R 9316 JRef:1XfH93160007 T225 DrwNo: 132.22.1629.41838 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.033

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

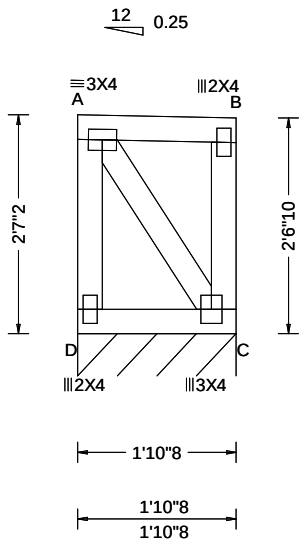
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35539 / MONO FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE13	Cust: R 9316 JRef:1XfH93160007 T226 DrwNo: 132.22.1629.41404 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.57 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.035

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

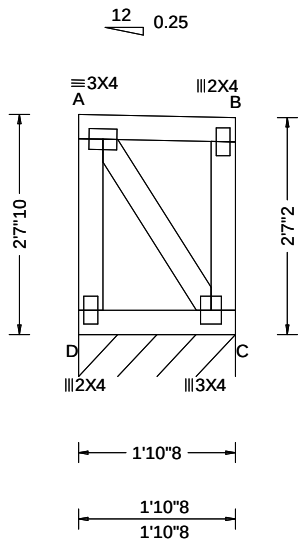
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35540 / MONO FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE14	Cust: R 9316 JRef:1XfH93160007 T227 DrwNo: 132.22.1629.42025 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.62 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.036

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

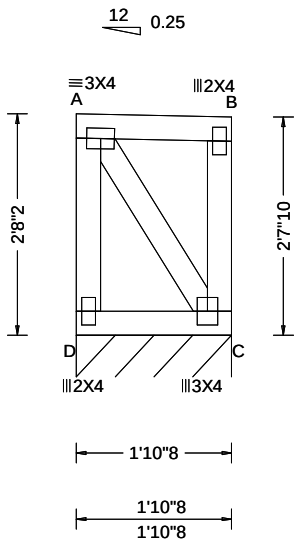
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35541 / MONO FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE15	Cust: R 9316 JRef:1XfH93160007 T228 DrwNo: 132.22.1629.43408 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.66 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.037

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

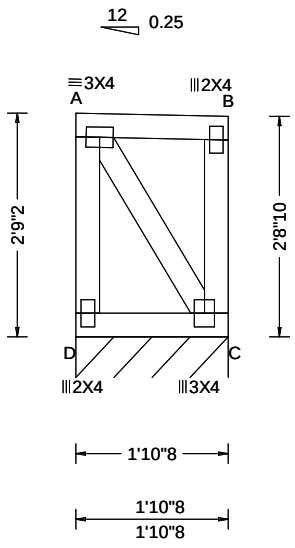
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35543 / MONO FROM:	Ply: 1 Qty: 17	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE17	Cust: R 9316 JRef:1XfH93160007 T251 DrwNo: 132.22.1629.42633 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.74 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.040

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

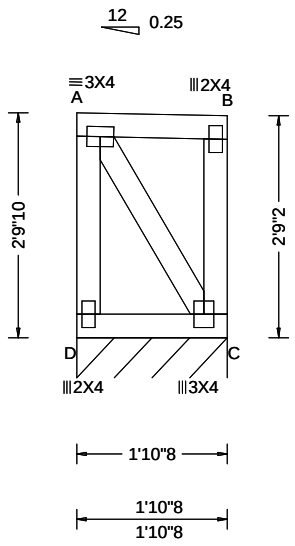
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35544 / MONO FROM:	Ply: 1 Qty: 17	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE18	Cust: R 9316 JRef:1XfH93160007 T252 DrwNo: 132.22.1629.42632 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.78 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.041

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

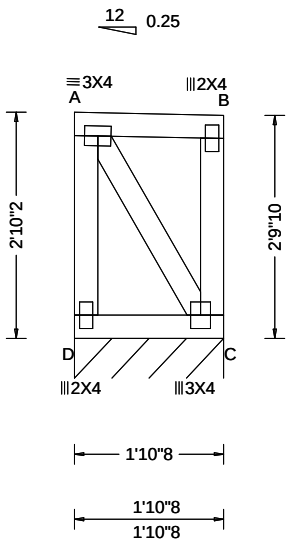
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35545 / MONO FROM:	Ply: 1 Qty: 17	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE19	Cust: R 9316 JRef:1XfH93160007 T253 DrwNo: 132.22.1629.41930 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.82 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

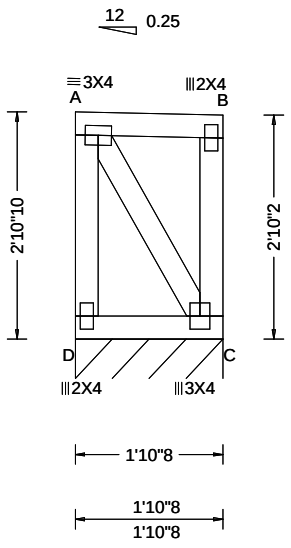
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35546 / MONO FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE20	Cust: R 9316 JRef:1XfH93160007 T254 DrwNo: 132.22.1629.39197 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.001 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.044

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/27

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

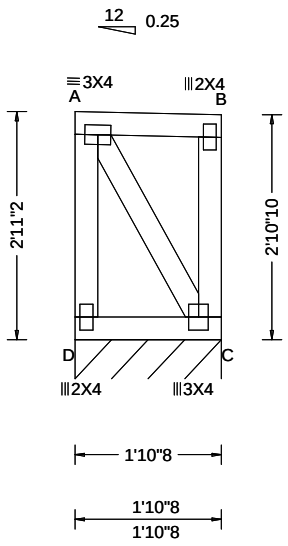
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35547 / MONO FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE21	Cust: R 9316 JRef:1XfH93160007 T255 DrwNo: 132.22.1629.42389 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.57 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.001 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.046

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

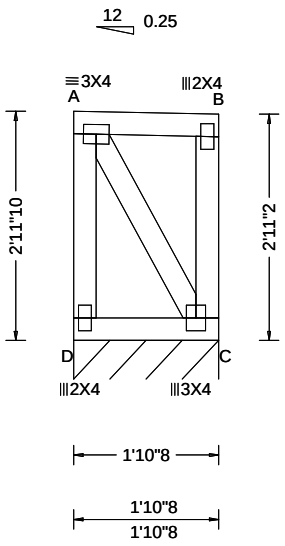
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35548 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE22	Cust: R 9316 JRef:1XfH93160007 T256 DrwNo: 132.22.1629.44657 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.95 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.001 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.047

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

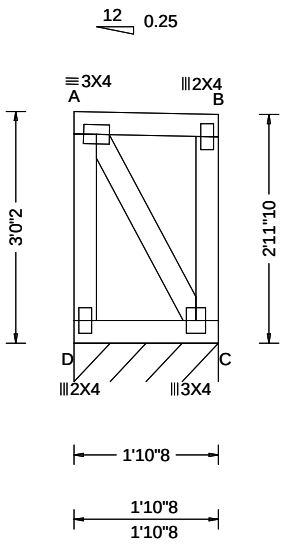
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35549 / MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE23	Cust: R 9316 JRef:1XfH93160007 T257 DrwNo: 132.22.1629.43738 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.66 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.001 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.049

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/29

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

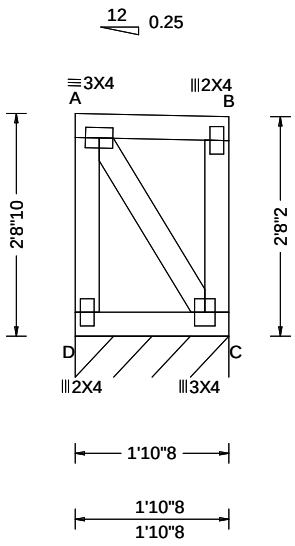
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35542 / MONO FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE16	Cust: R 9316 JRef:1XfH93160007 T231 DrwNo: 132.22.1629.41332 / NDW 05/12/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -
NCBCLL: 0.00	Mean Height: 22.37 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.046
Spacing: 24.0 "	MWFRS Parallel Dist: > 2h	Rep Fac: Yes	Max Web CSI: 0.038
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 29.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

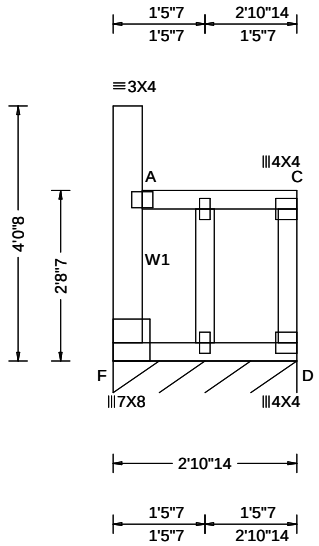
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35525 / GABL FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T52	Cust: R 9316 JRef:1XfH93160007 T15 / DrwNo: 132.22.1629.41559 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.007 A	999	360
VERT(CL):	0.009 A	999	240
HORZ(LL):	0.115 A	-	-
HORZ(TL):	0.134 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.115
Max BC CSI: 0.323
Max Web CSI: 0.142

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	119	/-	/-	/56	/4	/32

Wind reactions based on MWFRS
D Brg Wid = 34.9 Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.34	13.63	2.45

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

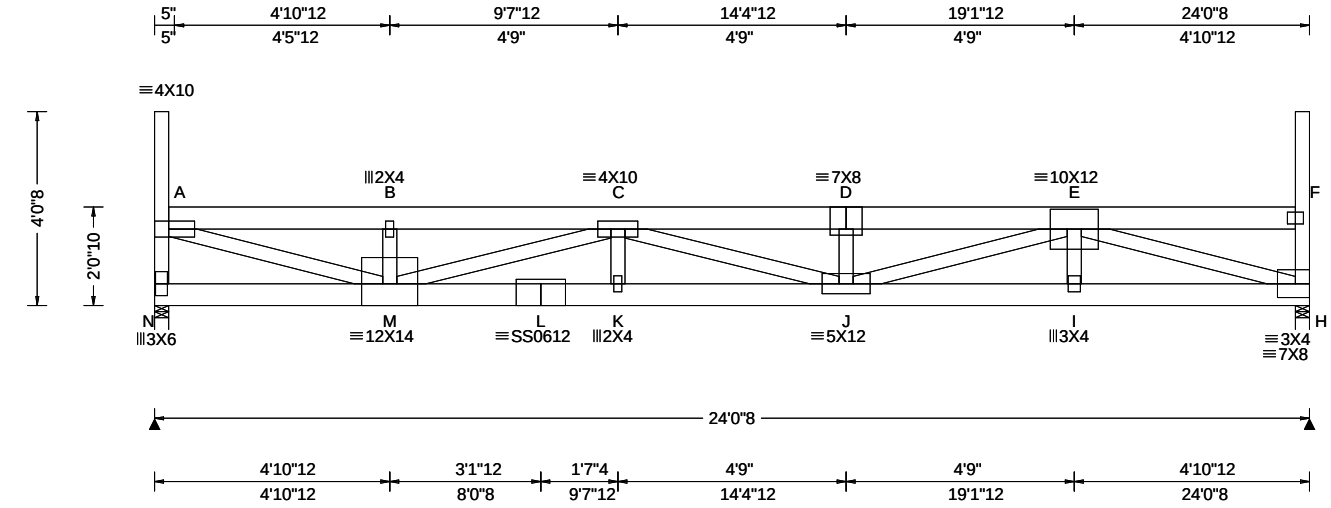
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35554 / FLAT FROM:	Ply: 2 Qty: 9	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T32	Cust: R 9316 JRef:1XfH93160007 T30 / DrwNo: 132.22.1629.43583 / NDW 05/12/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.258 D	999	360
VERT(CL):	0.479 D	601	240
HORZ(LL):	0.039 H	-	-
HORZ(TL):	0.073 H	-	-

Creep Factor: 2.0
Max TC CSI: 0.228
Max BC CSI: 0.646
Max Web CSI: 0.891

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	2493	/-	/-	/-	/397	/-
H	2484	/-	/-	/-	/387	/-

Wind reactions based on MWFRS
N Brg Wid = 3.5 Min Req = 2.0 (Truss)
H Brg Wid = 3.5 Min Req = 1.9 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	520	- 3179	C - D	755	- 4648
B - C	519	- 3171	D - E	755	- 4648

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	4648	- 761	J - I	3156	- 506
L - K	4648	- 761	I - H	3156	- 506
K - J	4648	- 761			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	176	- 1116	J - E	1573	- 263
A - M	3202	- 525	E - H	525	- 3276
M - C	256	- 1558			

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 23.75
BC: From 60 plf at 0.00 to 60 plf at 24.04
BC: 173 lb Conc. Load at 1.98, 3.98, 7.98, 9.98 11.98,13.98,21.98
BC: 170 lb Conc. Load at 5.98,15.98,17.98,19.98

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.99	34.38	4.14
23.75	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

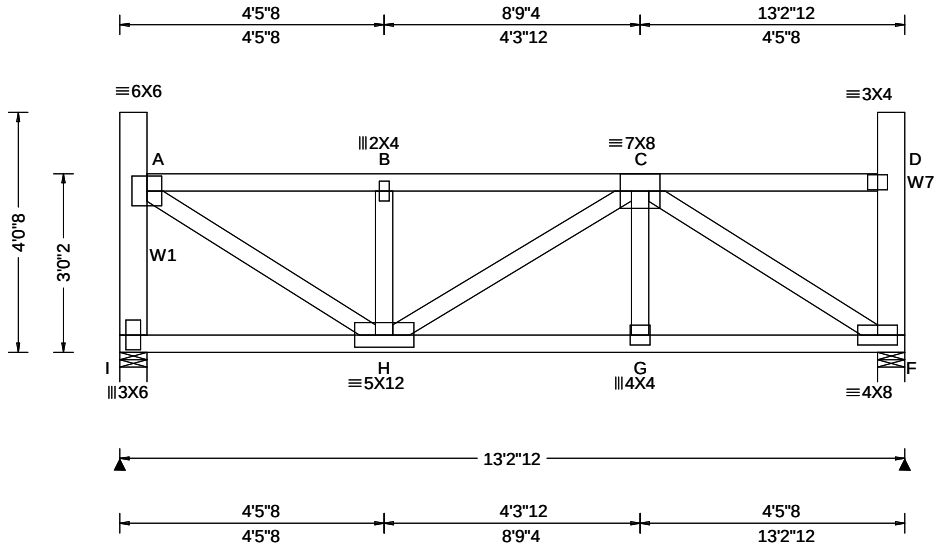
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35551 FLAT FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T09	Cust: R 9316 JRef:1XfH93160007 T11 DrwNo: 132.22.1642.03370 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.038 B	999	360
VERT(CL):	0.071 B	999	240
HORZ(LL):	0.012 A	-	-
HORZ(TL):	0.022 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.313
Max BC CSI: 0.556
Max Web CSI: 0.834

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	1464	/-	/-	/-	/155	/-
F	1371	/-	/-	/-	/118	/-

Wind reactions based on MWFRS
I Brg Wid = 5.5 Min Req = 1.9 (Truss)
F Brg Wid = 5.5 Min Req = 1.7 (Truss)
Bearings I & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	174	-1777	B - C	173	-1772

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	1747	-143	G - F	1747	-143

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - A	109	-1164	C - G	699	-44
A - H	1928	-186	C - F	162	-1991

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 60 plf at 0.00 to 60 plf at 13.23
BC: 204 lb Conc. Load at 1.17, 3.17, 5.17,11.17
BC: 183 lb Conc. Load at 7.17, 9.17

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

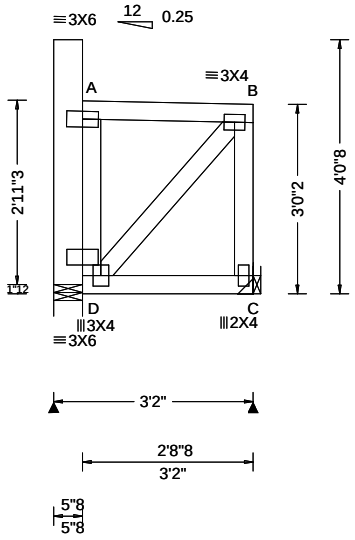
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35521 MONO FROM:	Ply: 1 Qty: 13	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48A	Cust: R 9316 JRef:1XfH93160007 T28 DrwNo: 132.22.1644.56770 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.04 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	D	999	360
VERT(CL): 0.001	D	999	240
HORZ(LL): 0.000	C	-	-
HORZ(TL): 0.000	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.120
Max BC CSI: 0.103
Max Web CSI: 0.023

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	170	/-	/-	/79	/9	/1
C	183	/-	/-	/85	/7	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11938.37" if used)

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

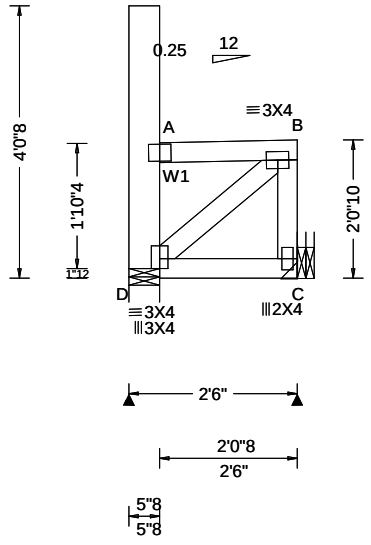
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35945 / MONO FROM: JRQ	Ply: 1 Qty: 67	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02A	Cust: R 9316 JRef:1XfH93160007 T35 / DrwNo: 132.22.1629.41590 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.102
Max BC CSI: 0.079
Max Web CSI: 0.106

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	122	/-	/-	/98	/75	/61
C	170	/-	/-	/144	/55	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

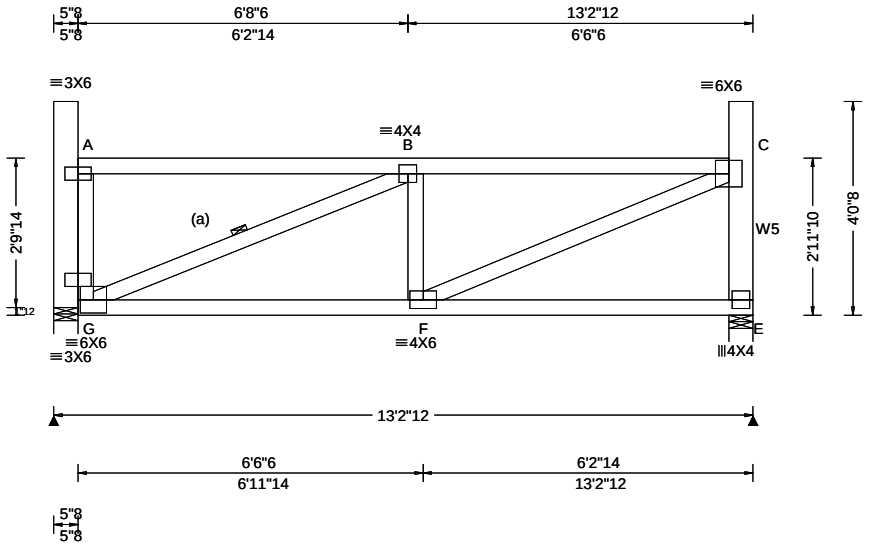
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35931 / MONO FROM: JRQ	Ply: 1 Qty: 1	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T08A	Cust: R 9316 JRef:1XfH93160007 T8 / DrwNo: 132.22.1629.43441 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.97 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.036	B	999	360
VERT(CL): 0.067	B	999	240
HORZ(LL): 0.007	E	-	-
HORZ(TL): 0.013	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.705
Max BC CSI: 0.887
Max Web CSI: 0.297

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	823	/-	/-	/395	/48	/78
E	805	/-	/-	/382	/45	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Support)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	98	-1198

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	1195	-106

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	655	-22	F - C	1198	-99
G - A	48	-824	C - E	60	-651
G - B	94	-1265			

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W5 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Blocking
Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11965.47" if used)

Additional Notes
Truss must be installed as shown with top chord up.

05/12/2022

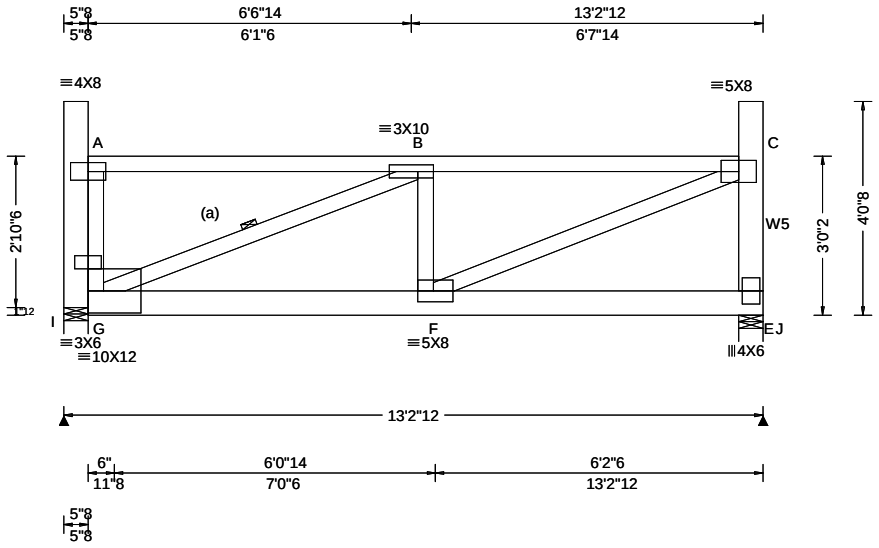
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35552 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T09B	Cust: R 9316 JRef:1XfH93160007 T21 DrwNo: 132.22.1642.17403 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.057	F	999	360
VERT(CL): 0.106	F	999	240
HORZ(LL): 0.008	A	-	-
HORZ(TL): 0.015	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.779
Max BC CSI: 0.649
Max Web CSI: 0.515

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	1427	/-	/-	/-	/68	/-
J	1317	/-	/-	/-	/88	/-

Wind reactions based on MWFRS
I Brg Wid = 5.5 Min Req = 1.5 (Support)
J Brg Wid = 5.5 Min Req = 2.1 (Truss)
Bearings I & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	109	- 2065

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	2023	- 108

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	1257	- 57	F - C	2100	- 108
G - A	68	- 1429	C - E	54	- 1009
G - B	114	- 2134			

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W5 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 12.31
BC: From 60 plf at 0.00 to 60 plf at 12.77
BC: 183 lb Conc. Load at 0.71, 2.71, 4.71, 6.71 8.71
BC: 204 lb Conc. Load at 10.71

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Blocking
Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11970.89" if used)

Additional Notes
Truss must be installed as shown with top chord up.

05/12/2022

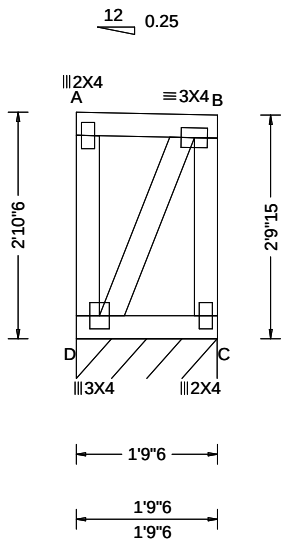
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35477 / MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T19A	Cust: R 9316 JRef:1XfH93160007 T19 DrwNo: 132.22.1629.42976 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.99 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	-0.001 A	-	-
HORZ(TL):	0.001 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.048
Max BC CSI: 0.041
Max Web CSI: 0.041

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	130	/-	/-	/61	/6	/28

Wind reactions based on MWFRS
D Brg Wid = 21.4 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

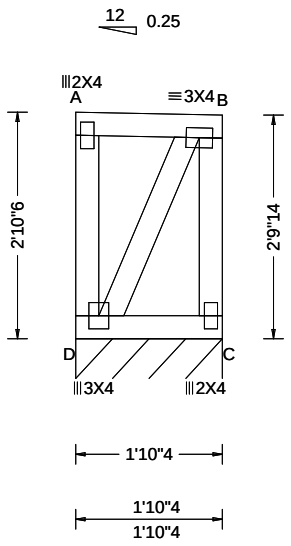
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35936 / MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T16A	Cust: R 9316 JRef:1XfH93160007 T16 / DrwNo: 132.22.1629.41854 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.99 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): -0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.052
Max BC CSI: 0.045
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/27

Wind reactions based on MWFRS
C Brg Wid = 22.3 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

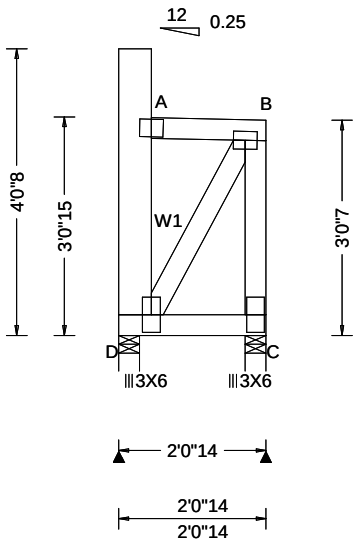
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35472 GABL FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T14A	Cust: R 9316 JRef:1XfH93160007 T14 DrwNo: 132.22.1642.30863 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.001	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.002	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.052
Max Web CSI: 0.059

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	106	/-	/-	/120	/91	/89
C	131	/-	/-	/153	/78	/-

Wind reactions based on MWFRS
D Brg Wid = 3.5 Min Req = 1.5 (Truss)
C Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings D & C are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

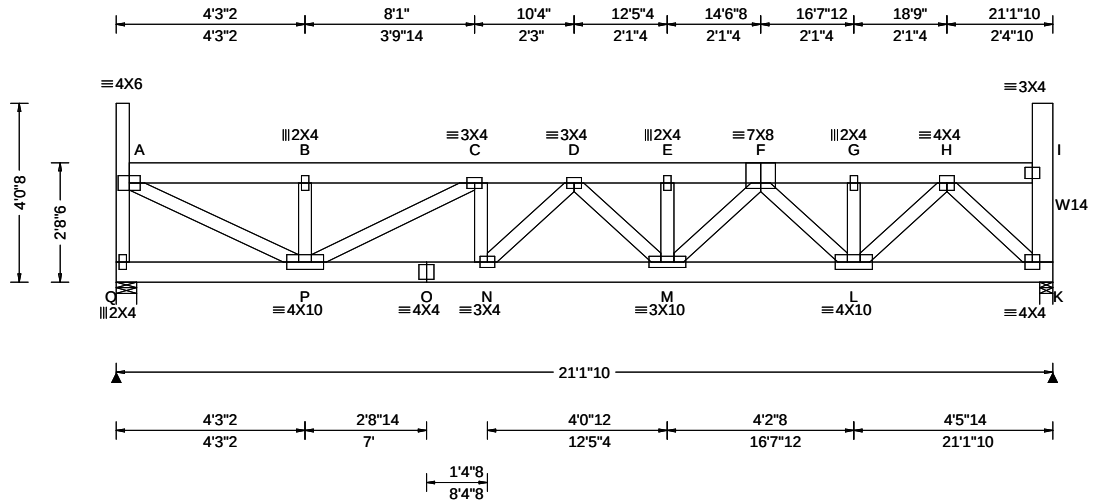
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35558 / FLAT FROM:	Ply: 3 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T01A	Cust: R 9316 JRef:1XfH93160007 T40 / DrwNo: 132.22.1629.42903 / NDW 05/12/2022

3 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.060	D	999	360
VERT(CL): 0.111	D	999	240
HORZ(LL): 0.014	K	-	-
HORZ(TL): 0.026	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.054
Max BC CSI: 0.283
Max Web CSI: 0.291

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	1981	/-	/-	/-	/117	/-
K	2325	/-	/-	/-	/149	/-

Wind reactions based on MWFRS
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
K Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings Q & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	68	- 1106	E - F	154	- 2215
B - C	68	- 1102	F - G	93	- 1390
C - D	116	- 1792	G - H	93	- 1390
D - E	154	- 2215			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	1751	- 113	M - L	1836	- 126
O - N	1751	- 113	L - K	768	- 51
N - M	2024	- 136			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - A	38	- 620	F - L	48	- 652
A - P	1188	- 73	L - H	908	- 61
P - C	52	- 752	H - K	70	- 1041
M - F	554	- 41			

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 9.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	70 plf at	0.29 to	70 plf at	20.68	
BC: From	60 plf at	0.00 to	60 plf at	21.14	

BC: 1611 lb Conc. Load at 12.90

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.39	1.34	13.80	3.32
20.68	0.00	20.39	1.34	13.80	3.32

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

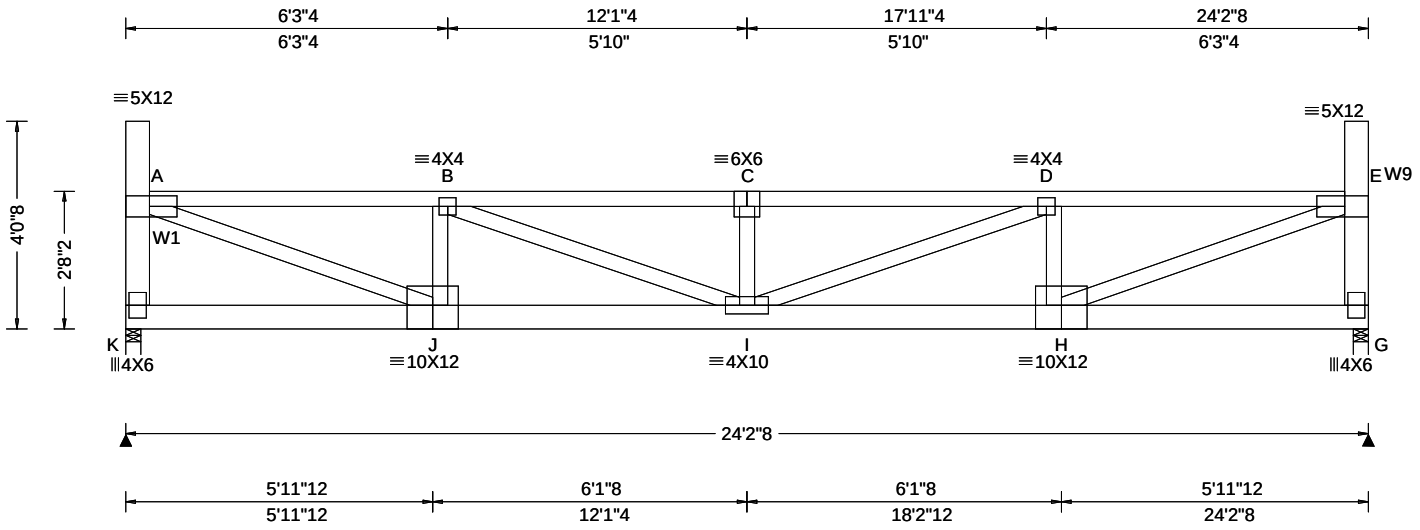
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35519 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T47A	Cust: R 9316 JRef:1XfH93160007 T39 DrwNo: 132.22.1644.51183 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.254 C	999	360
VERT(CL):	0.473 C	614	240
HORZ(LL):	0.046 A	-	-
HORZ(TL):	0.085 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.664
Max BC CSI: 0.461
Max Web CSI: 0.801

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/730	/80	/118
G	1541	/-	/-	/730	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.5 (Truss)
G Brg Wid = 3.5 Min Req = 2.5 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	190	- 3203	C - D	236	- 4203
B - C	236	- 4203	D - E	190	- 3203

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	3294	- 289	I - H	3294	- 184

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	94	- 1373	I - D	978	- 93
A - J	3266	- 184	D - H	105	- 756
J - B	105	- 756	H - E	3266	- 184
B - I	978	- 91	E - G	93	- 1373

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1,W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.36	14.50	3.50
23.75	0.00	23.29	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

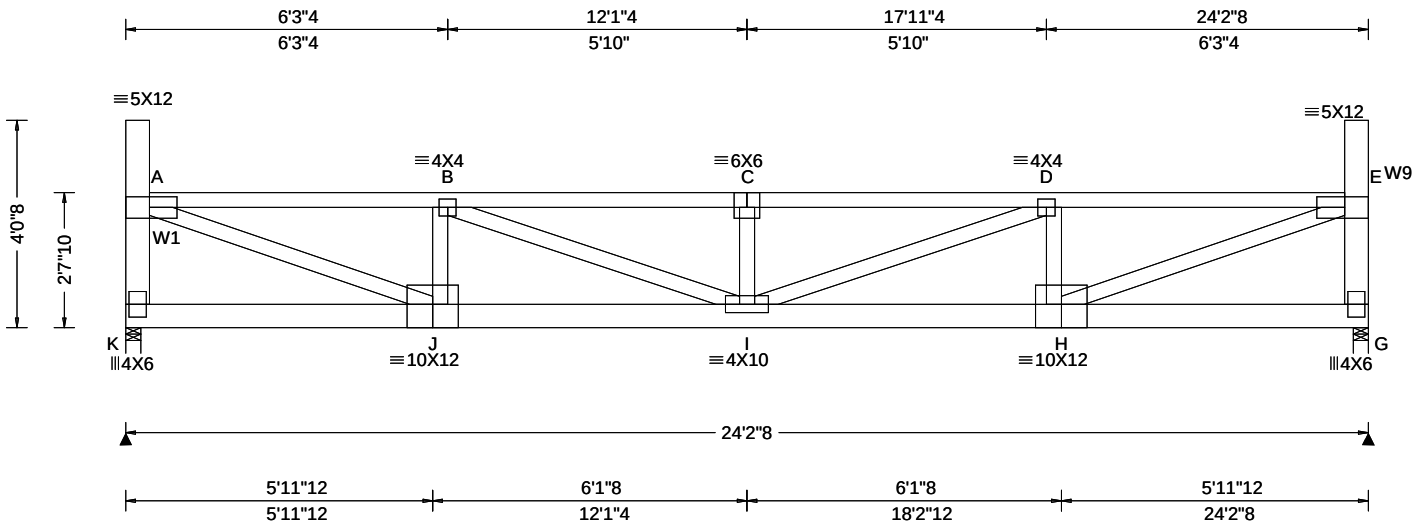
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35517 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T46A	Cust: R 9316 JRef:1XfH93160007 T17 DrwNo: 132.22.1644.43550 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.263 C	999	360
VERT(CL):	0.489 C	593	240
HORZ(LL):	0.046 A	-	-
HORZ(TL):	0.086 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.677
Max BC CSI: 0.470
Max Web CSI: 0.814

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/731	/80	/119
G	1541	/-	/-	/731	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.4 (Truss)
G Brg Wid = 3.5 Min Req = 2.4 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	192	- 3261	C - D	240	- 4278
B - C	240	- 4278	D - E	192	- 3261

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	3352	- 294	I - H	3352	- 186

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	93	- 1372	I - D	993	- 95
A - J	3317	- 187	D - H	105	- 755
J - B	105	- 755	H - E	3317	- 187
B - I	993	- 93	E - G	93	- 1372

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1,W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.41	15.89	3.83
23.75	0.00	23.29	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

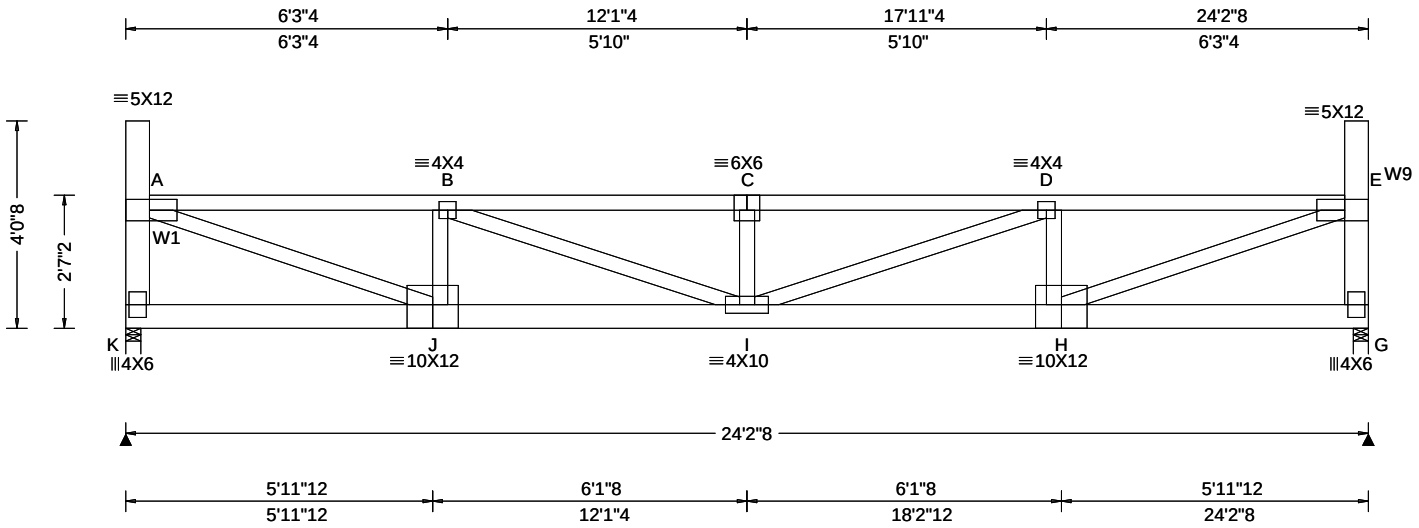
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35515 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T45A	Cust: R 9316 JRef:1XfH93160007 T29 DrwNo: 132.22.1644.38410 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.272 C	999	360
VERT(CL):	0.506 C	573	240
HORZ(LL):	0.047 A	-	-
HORZ(TL):	0.088 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.689
Max BC CSI: 0.479
Max Web CSI: 0.827

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/731	/80	/120
G	1541	/-	/-	/731	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.4 (Truss)
G Brg Wid = 3.5 Min Req = 2.4 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	195	- 3320	C - D	243	- 4355
B - C	243	- 4355	D - E	195	- 3320

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	3413	- 299	I - H	3413	- 188

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	93	- 1372	I - D	1008	- 97
A - J	3370	- 190	D - H	105	- 753
J - B	105	- 753	H - E	3370	- 190
B - I	1008	- 95	E - G	93	- 1372

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1,W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.45	17.27	4.16
23.75	0.00	23.29	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

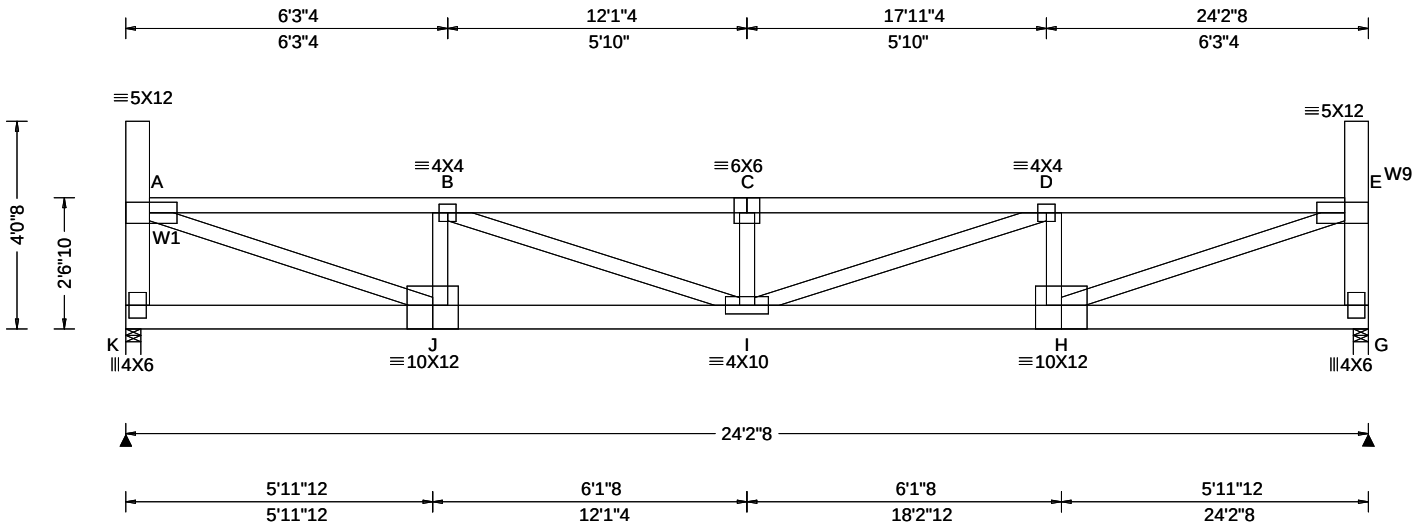
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35513 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T44A	Cust: R 9316 JRef:1XfH93160007 T32 DrwNo: 132.22.1644.30937 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.282	C	999	360
VERT(CL): 0.524	C	553	240
HORZ(LL): 0.048	A	-	-
HORZ(TL): 0.089	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.703
Max BC CSI: 0.488
Max Web CSI: 0.840

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/731	/80	/121
G	1541	/-	/-	/731	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.4 (Truss)
G Brg Wid = 3.5 Min Req = 2.4 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	198	- 3381	C - D	247	- 4436
B - C	247	- 4436	D - E	198	- 3381

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	3476	- 303	I - H	3476	- 190

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	93	- 1371	I - D	1025	- 99
A - J	3425	- 194	D - H	105	- 752
J - B	105	- 752	H - E	3425	- 193
B - I	1025	- 97	E - G	93	- 1371

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1,W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.49	18.65	4.50
23.75	0.00	23.29	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

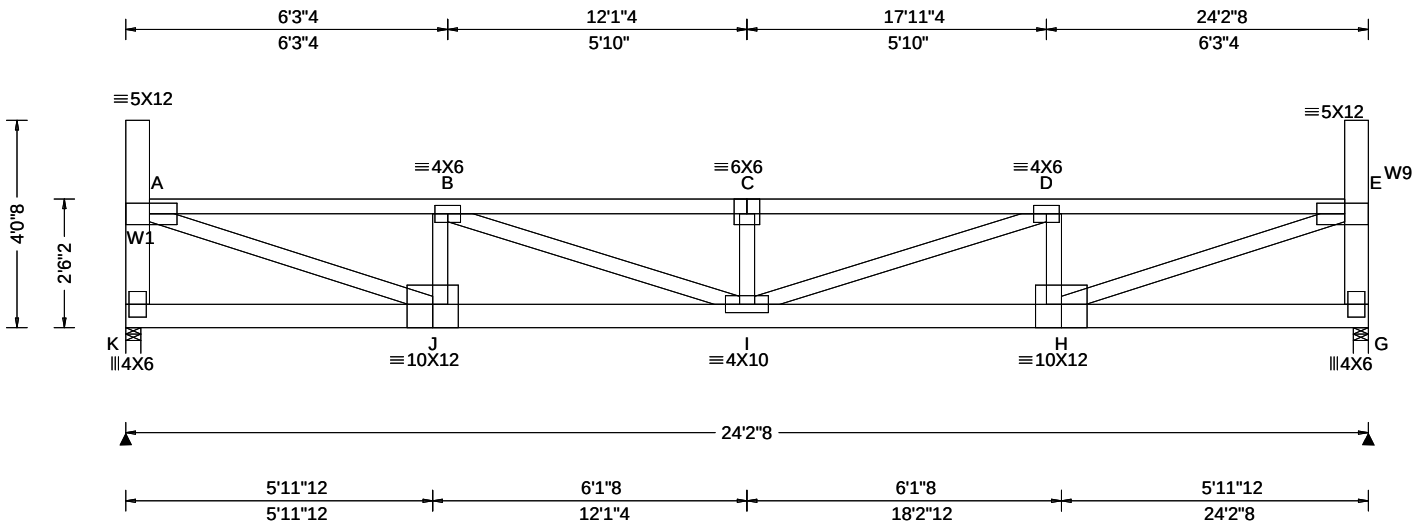
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35511 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T43A	Cust: R 9316 JRef:1XfH93160007 T24 DrwNo: 132.22.1644.25580 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.292	C	993	360
VERT(CL): 0.544	C	534	240
HORZ(LL): 0.049	A	-	-
HORZ(TL): 0.091	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.733
Max BC CSI: 0.498
Max Web CSI: 0.854

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/731	/79	/122
G	1541	/-	/-	/731	/79	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.4 (Truss)
G Brg Wid = 3.5 Min Req = 2.4 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	201	- 3444	C - D	251	- 4519
B - C	251	- 4519	D - E	201	- 3444

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	3541	- 308	I - H	3541	- 192

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	93	- 1370	I - D	1041	- 102
A - J	3482	- 197	D - H	105	- 750
J - B	105	- 750	H - E	3482	- 196
B - I	1041	- 99	E - G	92	- 1370

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1,W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.53	20.04	4.83
23.75	0.00	23.29	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

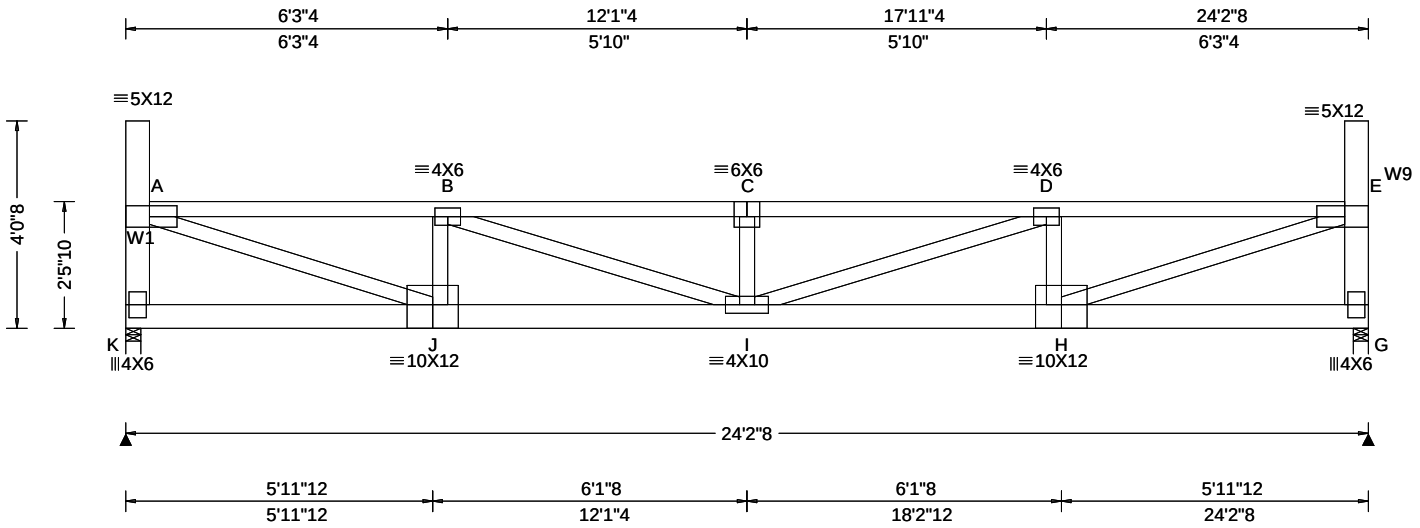
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35509 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T42A	Cust: R 9316 JRef:1XfH93160007 T34 DrwNo: 132.22.1644.14913 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.303 C	958	360
VERT(CL):	0.564 C	515	240
HORZ(LL):	0.050 A	-	-
HORZ(TL):	0.092 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.766
Max BC CSI: 0.508
Max Web CSI: 0.869

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/731	/79	/123
G	1541	/-	/-	/731	/79	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.4 (Truss)
G Brg Wid = 3.5 Min Req = 2.4 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	184	- 3510	C - D	200	- 4605
B - C	200	- 4605	D - E	184	- 3510

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	3608	- 313	I - H	3608	- 194

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	92	- 1369	I - D	1059	- 104
A - J	3542	- 200	D - H	105	- 748
J - B	105	- 748	H - E	3542	- 200
B - I	1059	- 101	E - G	92	- 1369

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1,W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.57	21.42	5.16
23.75	0.00	23.29	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.26". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

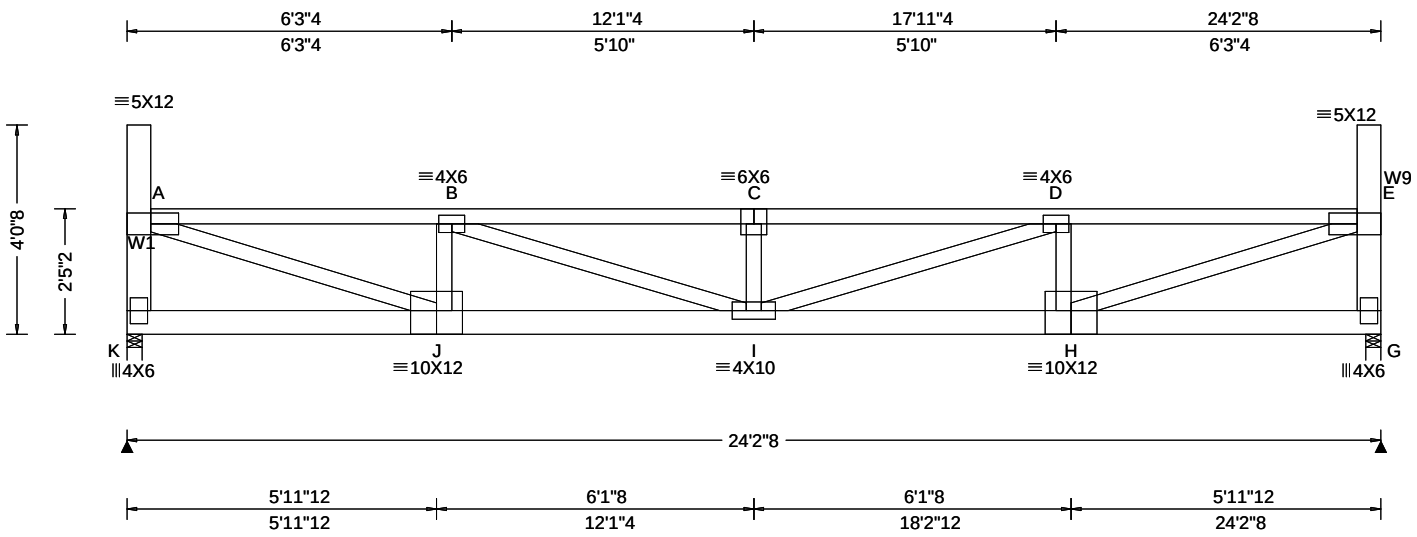
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35507 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T41A	Cust: R 9316 JRef:1XfH93160007 T31 DrwNo: 132.22.1644.06800 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.315 C	922	360
VERT(CL):	0.585 C	496	240
HORZ(LL):	0.050 A	-	-
HORZ(TL):	0.094 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.801
Max BC CSI: 0.519
Max Web CSI: 0.884

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/731	/79	/125
G	1541	/-	/-	/731	/79	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.4 (Truss)
G Brg Wid = 3.5 Min Req = 2.4 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	187	- 3578	C - D	203	- 4695
B - C	203	- 4695	D - E	188	- 3578

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	3678	- 318	I - H	3678	- 196

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	92	- 1368	I - D	1077	- 106
A - J	3603	- 204	D - H	105	- 747
J - B	105	- 747	H - E	3603	- 203
B - I	1077	- 104	E - G	92	- 1368

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1,W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.61	22.80	5.50
23.75	0.00	23.29	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.31" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

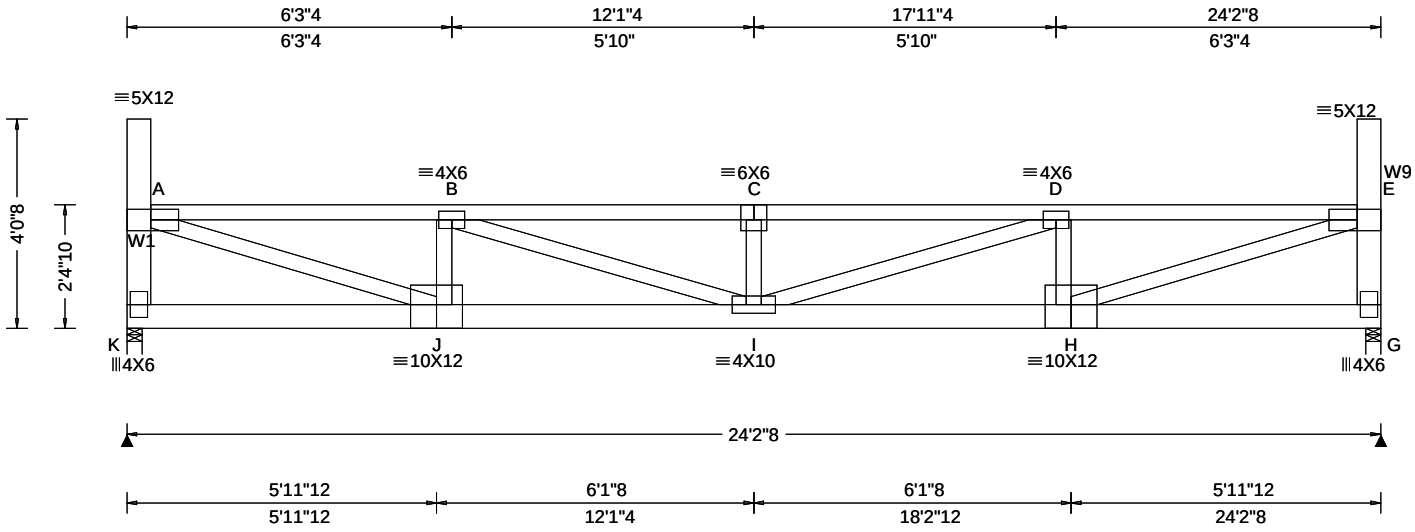
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35505 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T40A	Cust: R 9316 JRef:1XfH93160007 T27 DrwNo: 132.22.1643.59780 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.327 C	888	360
VERT(CL):	0.608 C	477	240
HORZ(LL):	0.051 A	-	-
HORZ(TL):	0.096 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.839
Max BC CSI: 0.530
Max Web CSI: 0.900

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/731	/79	/126
G	1541	/-	/-	/731	/79	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.4 (Truss)
G Brg Wid = 3.5 Min Req = 2.4 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	190	- 3649	C - D	206	- 4788
B - C	206	- 4788	D - E	191	- 3649

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	3751	- 304	I - H	3751	- 199

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	92	- 1367	I - D	1096	- 101
A - J	3668	- 208	D - H	105	- 745
J - B	105	- 745	H - E	3668	- 207
B - I	1096	- 99	E - G	92	- 1367

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1,W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.66	24.19	5.83
23.75	0.00	23.29	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

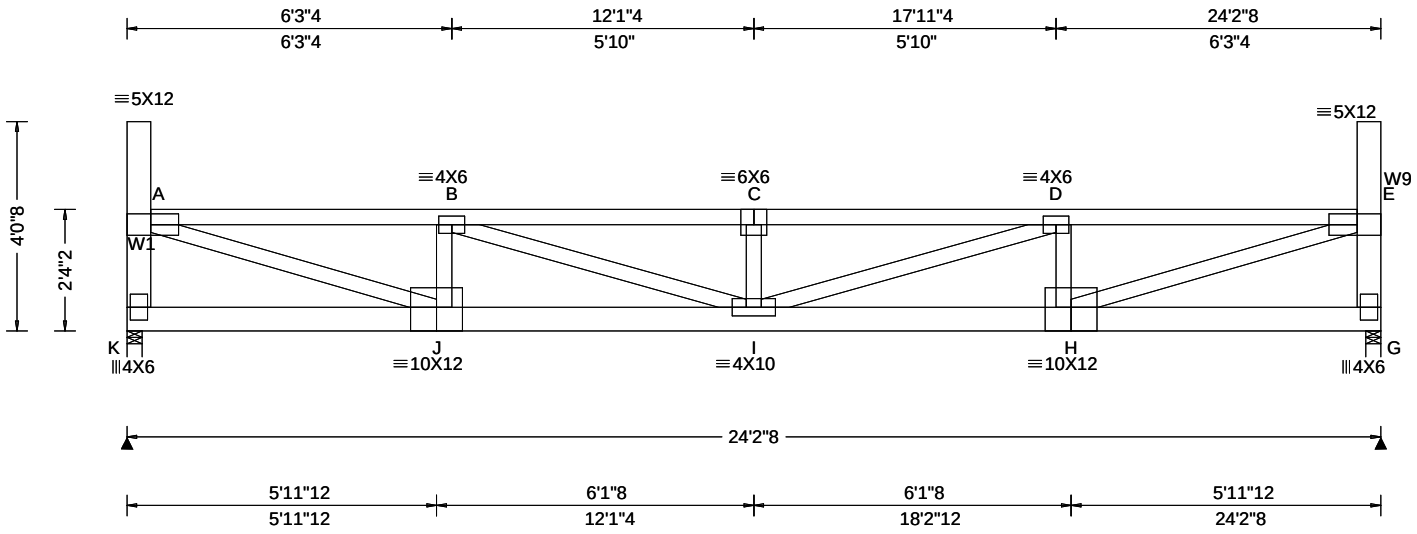
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35503 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T39A	Cust: R 9316 JRef:1XfH93160007 T37 DrwNo: 132.22.1643.52563 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.340 C	854	360
VERT(CL):	0.632 C	459	240
HORZ(LL):	0.052 A	-	-
HORZ(TL):	0.097 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.862
Max BC CSI: 0.542
Max Web CSI: 0.916

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/731	/79	/127
G	1541	/-	/-	/731	/79	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.4 (Truss)
G Brg Wid = 3.5 Min Req = 2.4 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	193	- 3723	C - D	209	- 4884
B - C	209	- 4884	D - E	194	- 3723

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	3827	- 309	I - H	3827	- 201

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	91	- 1366	I - D	1116	- 103
A - J	3734	- 212	D - H	105	- 743
J - B	105	- 743	H - E	3734	- 211
B - I	1116	- 101	E - G	91	- 1366

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1,W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.70	25.57	5.51
23.75	0.00	23.29	1.70	25.57	5.51

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

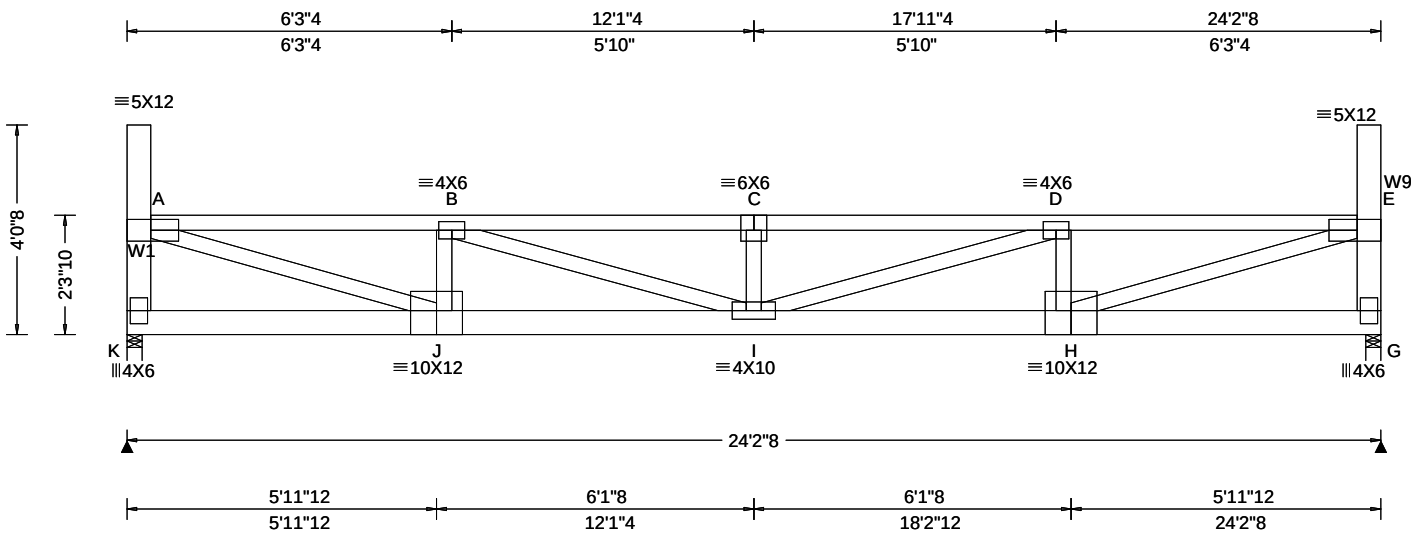
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35501 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T38A	Cust: R 9316 JRef:1XfH93160007 T25 DrwNo: 132.22.1643.48177 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.354 C	820	360
VERT(CL):	0.658 C	441	240
HORZ(LL):	0.053 A	-	-
HORZ(TL):	0.099 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.886
Max BC CSI: 0.554
Max Web CSI: 0.933

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/731	/79	/128
G	1541	/-	/-	/731	/79	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.4 (Truss)
G Brg Wid = 3.5 Min Req = 2.4 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	197	- 3800	C - D	213	- 4985
B - C	213	- 4985	D - E	198	- 3800

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	3906	- 314	I - H	3906	- 203

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	91	- 1365	I - D	1137	- 106
A - J	3804	- 216	D - H	105	- 741
J - B	104	- 741	H - E	3804	- 215
B - I	1137	- 103	E - G	91	- 1365

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1,W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.74	26.95	5.23
23.75	0.00	23.29	1.74	26.95	5.23

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.35" DL: 0.30". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

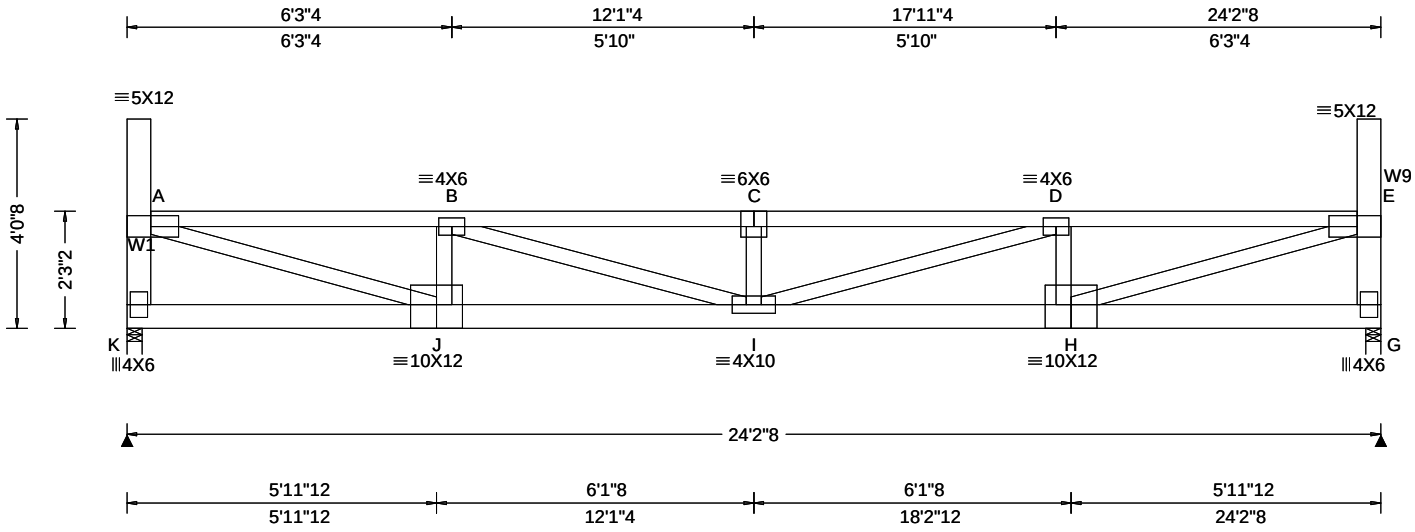
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35499 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T37A	Cust: R 9316 JRef:1XfH93160007 T33 DrwNo: 132.22.1643.33050 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.369 C	787	360
VERT(CL):	0.686 C	423	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.101 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.913
Max BC CSI: 0.567
Max Web CSI: 0.951

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/732	/79	/129
G	1541	/-	/-	/732	/79	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.4 (Truss)
G Brg Wid = 3.5 Min Req = 2.4 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	200	- 3879	C - D	216	- 5090
B - C	216	- 5090	D - E	201	- 3879

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	3988	- 340	I - H	3988	- 206

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	91	- 1363	I - D	1158	- 117
A - J	3876	- 220	D - H	105	- 739
J - B	104	- 739	H - E	3876	- 219
B - I	1158	- 114	E - G	91	- 1363

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1,W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.78	28.34	4.98
23.75	0.00	23.29	1.78	28.34	4.98

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.37" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

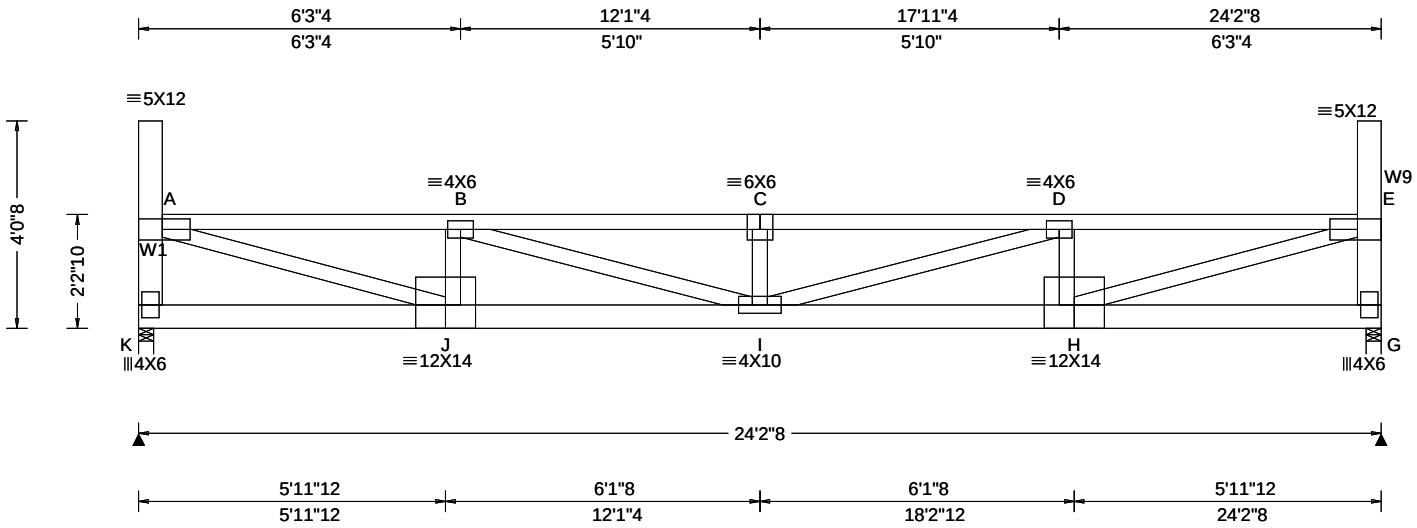
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35497 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T36A	Cust: R 9316 JRef:1XfH93160007 T38 DrwNo: 132.22.1643.26203 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.385 C	755	360
VERT(CL):	0.715 C	406	240
HORZ(LL):	0.055 A	-	-
HORZ(TL):	0.103 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.930
Max BC CSI: 0.581
Max Web CSI: 0.970

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/732	/79	/131
G	1541	/-	/-	/732	/79	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.4 (Truss)
G Brg Wid = 3.5 Min Req = 2.4 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	227	- 3963	C - D	282	- 5199
B - C	282	- 5199	D - E	227	- 3963

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	4073	- 346	I - H	4073	- 208

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	91	- 1362	I - D	1181	- 120
A - J	3952	- 224	D - H	105	- 737
J - B	104	- 737	H - E	3952	- 223
B - I	1181	- 117	E - G	90	- 1362

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1,W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.82	29.72	4.74
23.75	0.00	23.29	1.82	29.72	4.74

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.33". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

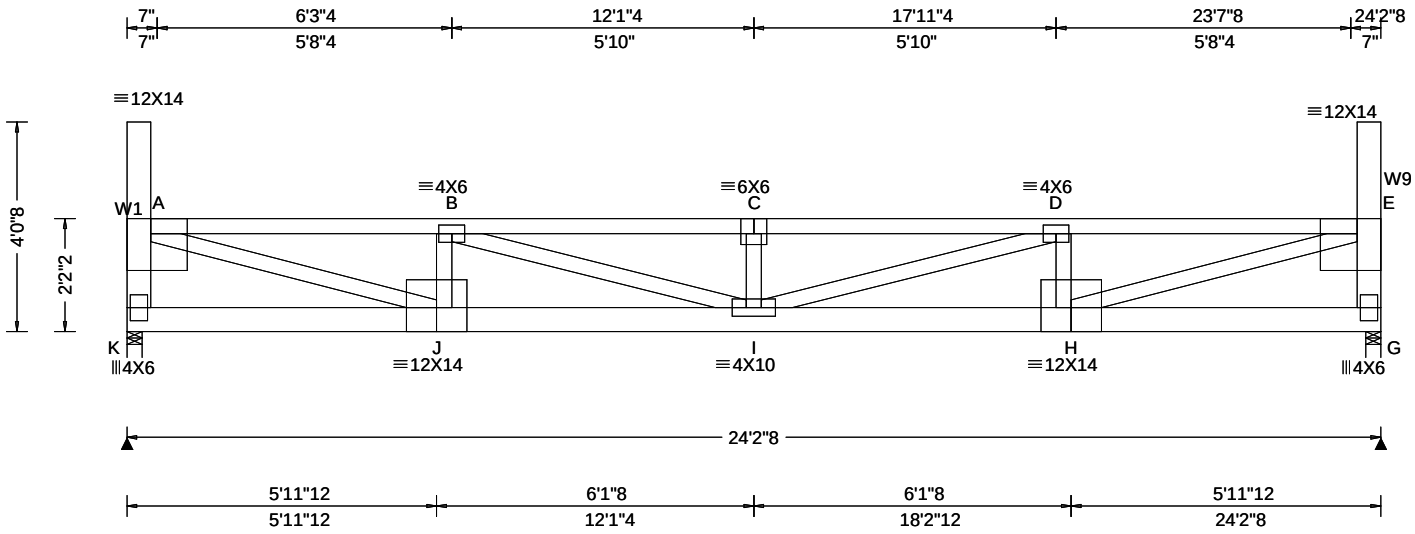
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35495 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T35A	Cust: R 9316 JRef:1XfH93160007 T36 DrwNo: 132.22.1643.20787 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.401 C	723	360
VERT(CL):	0.746 C	389	240
HORZ(LL):	0.056 A	-	-
HORZ(TL):	0.105 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.949
Max BC CSI: 0.595
Max Web CSI: 0.989

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/732	/78	/132
G	1541	/-	/-	/732	/78	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.4 (Truss)
G Brg Wid = 3.5 Min Req = 2.4 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	231	- 4049	C - D	287	- 5313
B - C	287	- 5313	D - E	231	- 4049

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	4162	- 352	I - H	4162	- 211

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	90	- 1361	I - D	1205	- 123
A - J	4031	- 230	D - H	105	- 735
J - B	104	- 735	H - E	4031	- 228
B - I	1205	- 120	E - G	90	- 1361

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1,W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.86	31.10	4.53
23.75	0.00	23.29	1.86	31.10	4.53

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.40" DL: 0.34". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

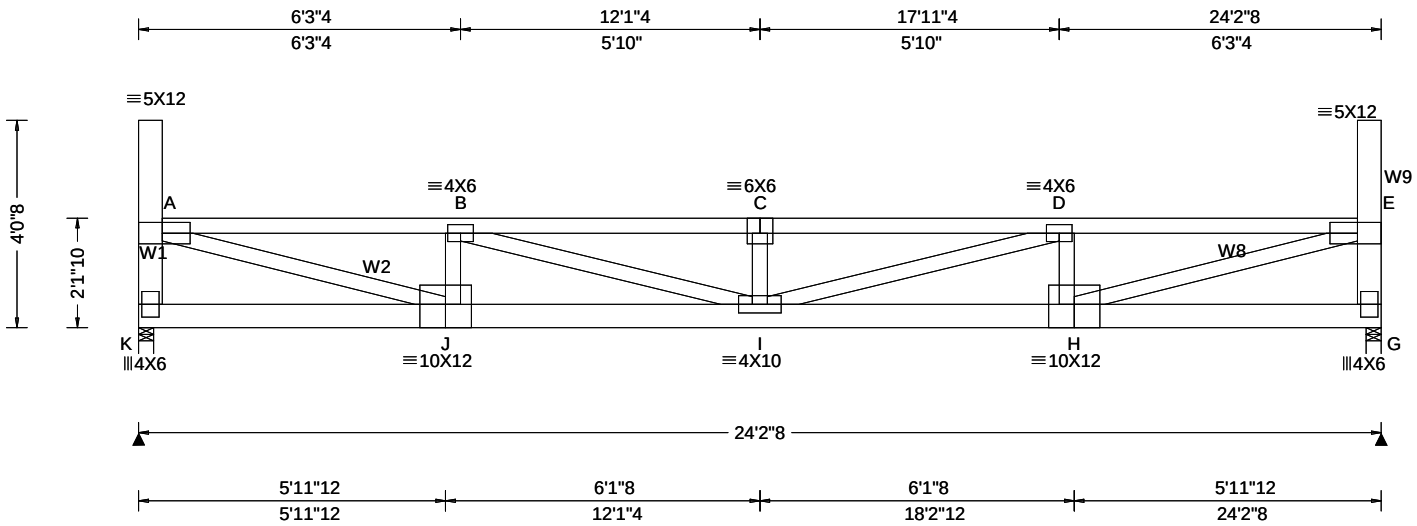
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35493 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T34A	Cust: R 9316 JRef:1XfH93160007 T26 DrwNo: 132.22.1643.10310 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.403 C	721	360
VERT(CL):	0.749 C	388	240
HORZ(LL):	0.058 A	-	-
HORZ(TL):	0.108 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.968
Max BC CSI: 0.608
Max Web CSI: 0.435

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/732	/78	/133
G	1541	/-	/-	/732	/78	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.4 (Truss)
G Brg Wid = 3.5 Min Req = 2.4 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	236	- 4157	C - D	292	- 5424
B - C	292	- 5424	D - E	236	- 4157

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	4271	- 359	I - H	4271	- 214

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	90	- 1365	I - D	1204	- 125
A - J	4140	- 238	D - H	104	- 728
J - B	104	- 728	H - E	4140	- 236
B - I	1204	- 122	E - G	90	- 1365

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1,W9 2x6 SPF 1650f-1.5E;
W2,W8 2x4 SPF 2100f-1.8E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.91	32.49	4.34
23.75	0.00	23.29	1.91	32.49	4.34

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

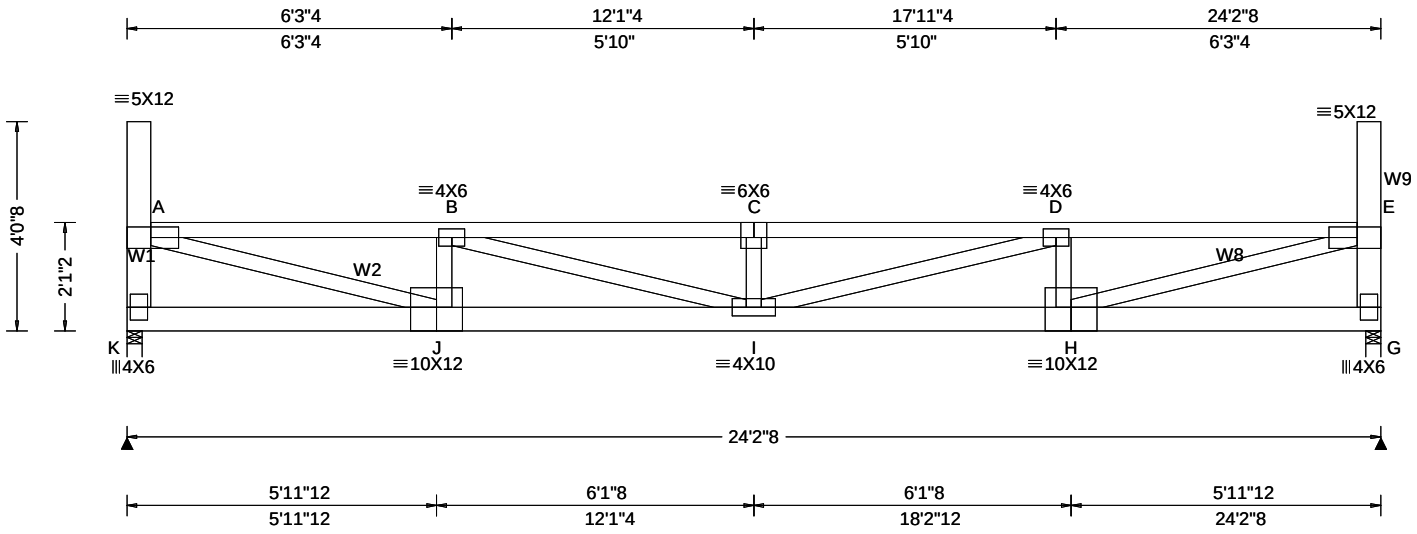
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35491 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T33A	Cust: R 9316 JRef:1XfH93160007 T23 DrwNo: 132.22.1642.54143 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.421 C	689	360
VERT(CL):	0.783 C	370	240
HORZ(LL):	0.059 A	-	-
HORZ(TL):	0.110 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.989
Max BC CSI: 0.624
Max Web CSI: 0.445

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/732	/78	/134
G	1541	/-	/-	/732	/78	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.4 (Truss)
G Brg Wid = 3.5 Min Req = 2.4 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	241	- 4253	C - D	298	- 5547
B - C	298	- 5547	D - E	241	- 4253

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	4369	- 365	I - H	4369	- 217

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	90	- 1363	I - D	1228	- 129
A - J	4227	- 244	D - H	104	- 725
J - B	104	- 725	H - E	4227	- 242
B - I	1228	- 125	E - G	90	- 1363

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1,W9 2x6 SPF 1650f-1.5E;
W2,W8 2x4 SPF 2100f-1.8E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.95	33.87	4.16
23.75	0.00	23.29	1.95	33.87	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.42" DL: 0.36". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

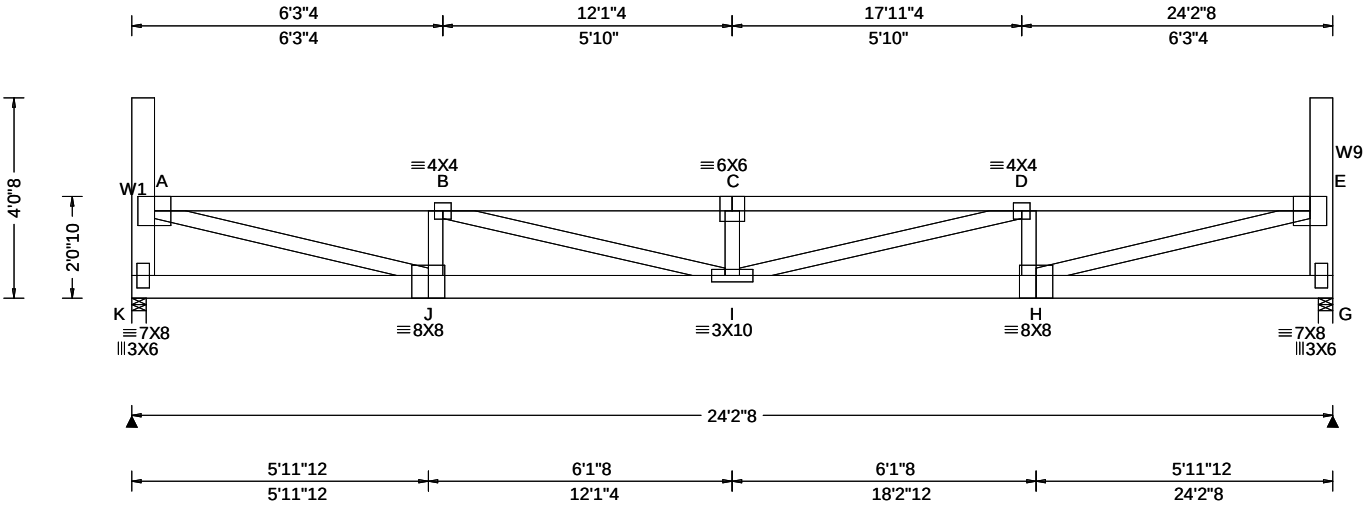
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35948 FLAT FROM:	Ply: 2 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T32A	Cust: R 9316 JRef:1XfH93160007 T22 DrwNo: 132.22.1642.45927 / NDW 05/12/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria

Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.267 C	999	360
VERT(CL):	0.496 C	585	240
HORZ(LL):	0.035 A	-	-
HORZ(TL):	0.065 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.443
Max BC CSI: 0.432
Max Web CSI: 0.614

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1770	/-	/-	/-	/343	/-
G	1721	/-	/-	/-	/355	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	519	- 2525	C - D	696	- 3304
B - C	696	- 3304	D - E	532	- 2517

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	2569	- 526	I - H	2561	- 538

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	147	- 740	I - D	773	- 164
A - J	2504	- 516	H - E	2498	- 528
B - I	765	- 177	E - G	150	- 738

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1,W9 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 35 plf at 0.46 to 35 plf at 23.75
BC: From 60 plf at 0.00 to 60 plf at 2.15
BC: From 30 plf at 2.15 to 30 plf at 24.21
BC: 170 lb Conc. Load at 2.15, 4.15, 6.15, 8.15 10.15,18.15,20.15
BC: 173 lb Conc. Load at 12.15,14.15,16.15,22.15

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.99	34.21	4.12
23.75	0.00	23.29	1.99	34.21	4.12

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

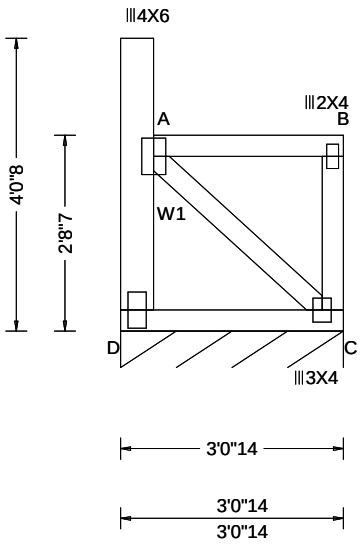
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 35526 GABL FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T52A	Cust: R 9316 JRef:1XfH93160007 T20 DrwNo: 132.22.1645.14180 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 B	999	360
VERT(CL):	0.000 B	999	240
HORZ(LL):	0.001 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.133
Max BC CSI: 0.119
Max Web CSI: 0.069

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	120	/-	/-	/56	/4	/30

Wind reactions based on MWFRS
C Brg Wid = 36.9 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.34	13.63	2.61

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

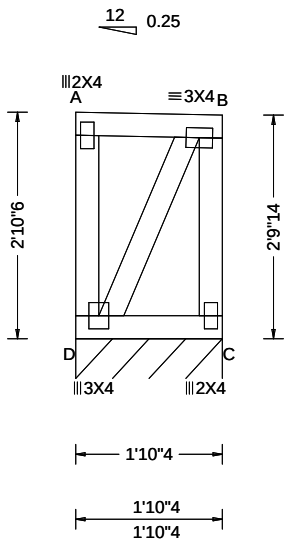
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35925 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T16B	Cust: R 9316 JRef:1XfH93160007 T12 / DrwNo: 132.22.1629.42197 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.99 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	-0.001 A	-	-
HORZ(TL):	0.001 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.052
Max BC CSI: 0.045
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/27

Wind reactions based on MWFRS
C Brg Wid = 22.3 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/12/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Gable Stud Reinforcement Detail

ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 'L' Brace * Group A	(1) 1x4 'L' Brace * Group B	(1) 2x4 'L' Brace * Group A	(1) 2x4 'L' Brace * Group B	(2) 2x4 'L' Brace ** Group A	(2) 2x4 'L' Brace ** Group B	(1) 2x6 'L' Brace * Group A	(1) 2x6 'L' Brace * Group B	(2) 2x6 'L' Brace ** Group A	(2) 2x6 'L' Brace ** Group B
24" o.c.	SPF HF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"
16" o.c.	SPF HF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

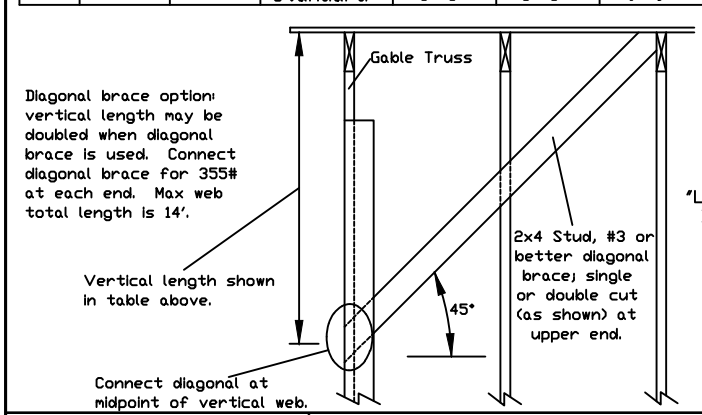
Attach 'L' braces with 10d (0.128"x3.0" min) nails.

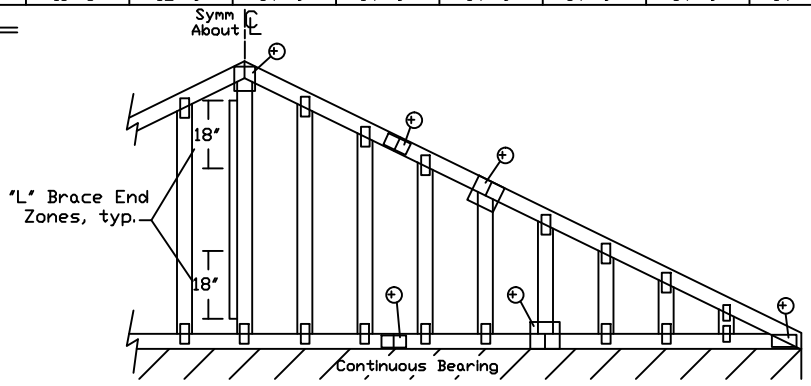
* For (1) 'L' brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) 'L' braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

'L' bracing must be a minimum of 80% of web member length.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 355# at each end. Max web total length is 14'.





Refer to chart above for max gable vertical length.

Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT: FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-16-GAB11530
DATE	01/26/2018
DRWG	A11530ENC160118

ALPINE® ITW COMPANY
Floor
2025
MiTek USA, Inc.

05/13/2022

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforecement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

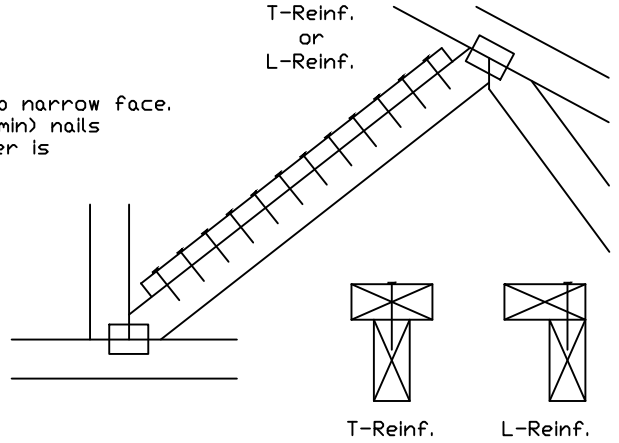
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

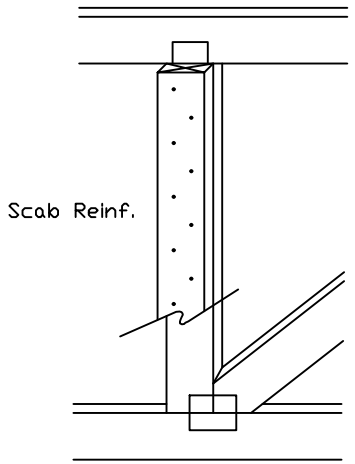
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL	PSF	
TC DL	PSF	
BC DL	PSF	
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

REF	CLR Subst.
DATE	01/02/19
DRWG	BRCLBSUB0119

05/12/2022

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C
Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail for lumber, plates, and other information not shown on this detail.

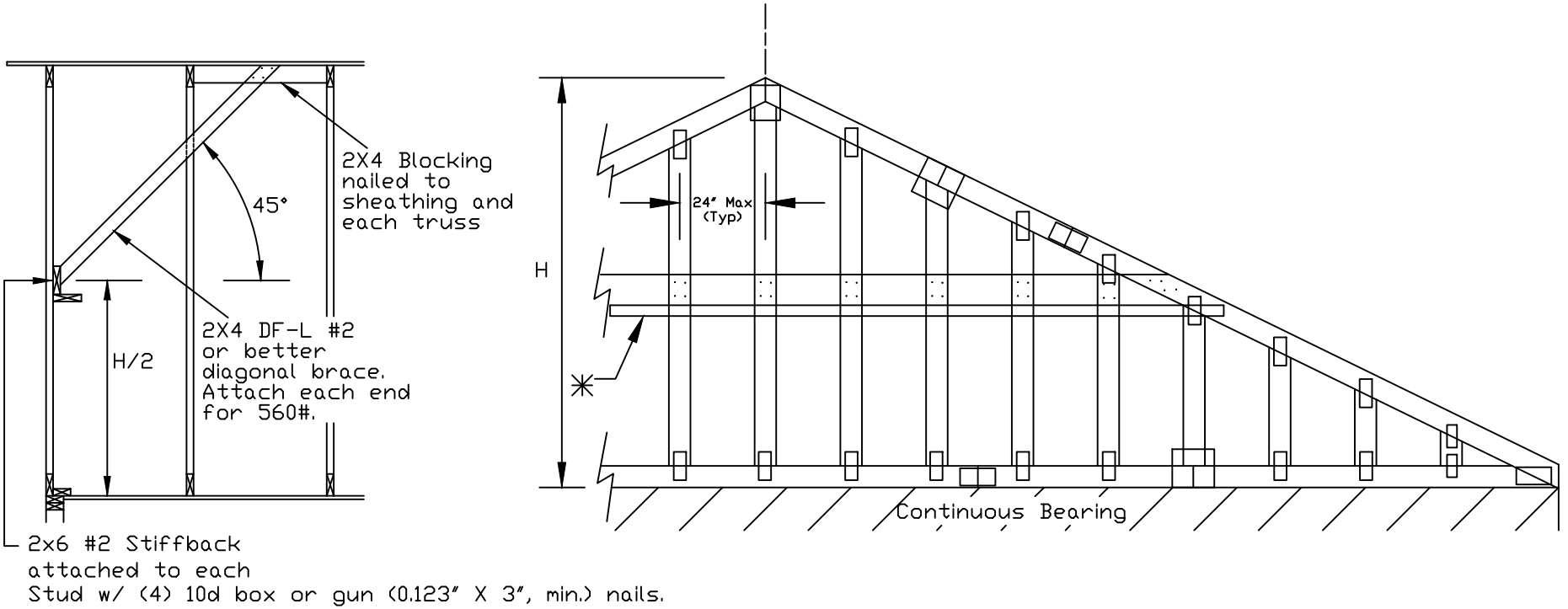
Nails: 10d box or gun (0.128"x3",min) nails.

H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback to roof diaphragm every 6'0" (see detail below or refer to DRWG A12030ENC160118).

H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace to roof diaphragm every 4'0" (see detail below or refer to DRWG A12030ENC160118).

✳ Optional 2x L-reinforcement attached to stiffback with 10d box or gun (0.128" x 3", min.) nails @ 6" o.c.



****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

ALPINE® ITW COMPANY

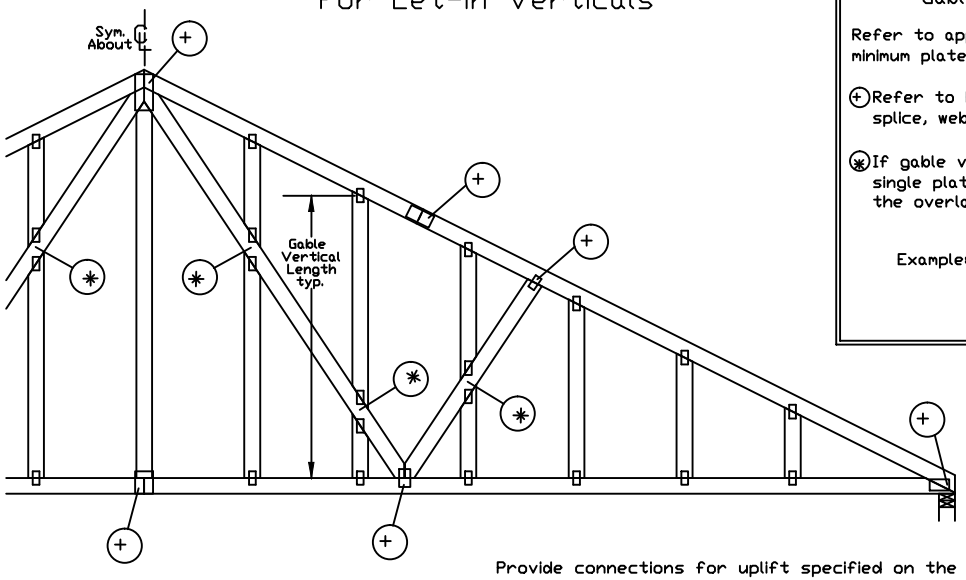
MAX. TOT. LD. 60 PSF

MAX. SPACING

REF	GE WHALER
DATE	01/02/2018
DRWG	GABRST160118

05/13/2022

Gable Detail
For Let-in Verticals



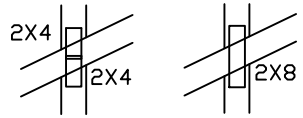
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

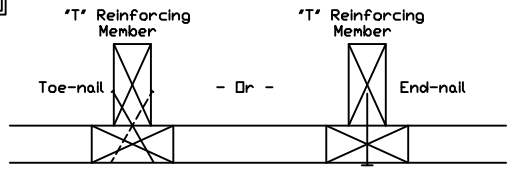
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊛ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



"T" Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:
10d Common (0.148"x 3",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

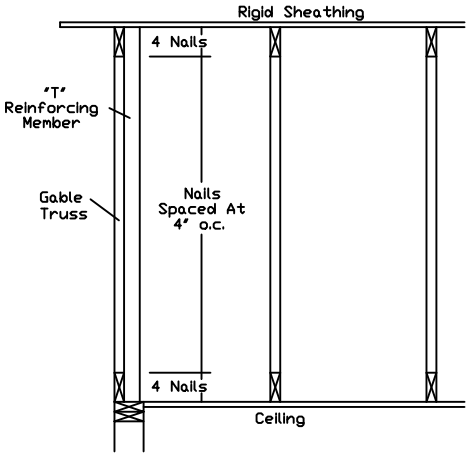
Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24"o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

MAX. TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX. SPACING	24.0"

REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 9 Truss	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Building 9

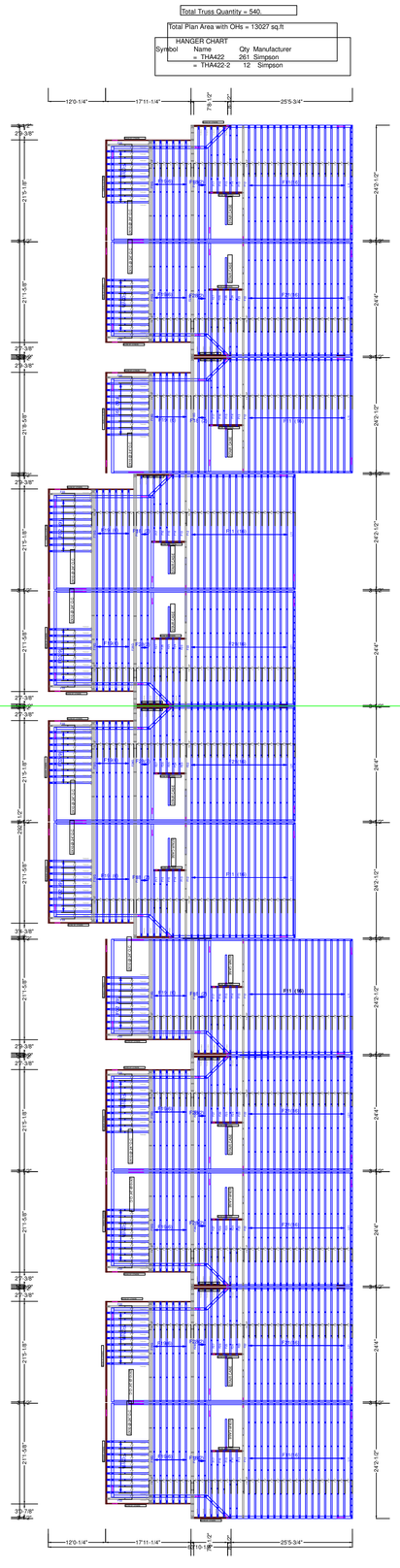
GROUP 9 FLOOR LAYOUT

Total Truss Quantity = 540

Total Plan Area with OHs = 13027 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
=	THA422	261	Simpson
=	THA422-2	12	Simpson



ROOF TRUSS LAYOUT (NTS)

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 6/6/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED, REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE 05/30/2022 BY CB

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

Job Name: McCambridge Brothers Construction

Designer: Juan R Quiroz

Date: 4/29/2022

Reference #: JB-220689

Mill Creek
3363 S. Halstead Rd.
Haysville, KS 67060
(316) 830-6108

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

Building 9

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

04/29/2022

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 *BY:* CB

Site Information:	**Page 1:**
Customer: Mill Creek Truss	*Job Number:* JB-220689
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1Xf493160007
Wind Standard: ASCE716 *Wind Speed (mph):* 0 *Building Type:*	*Design Loading (psf):* 75.00

This package contains general notes pages, 24 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	119.22.1630.49143	F02
3	119.22.1631.05203	F11
5	119.22.1631.21820	F13
7	119.22.1631.44457	F15
9	119.22.1632.15587	F17
11	119.22.1623.54938	F18G
13	119.22.1633.01010	F19G
15	119.22.1633.45973	F22
17	119.22.1633.59170	F24
19	119.22.1623.54920	F26
21	119.22.1623.54939	F28
23	119.22.1634.48753	L11
25	CNSY42PL0118	
27	LSCSYX2A1014	

Item	Drawing Number	Truss
2	119.22.1630.58973	F03
4	119.22.1631.15813	F12
6	119.22.1631.24717	F14
8	119.22.1631.56647	F16
10	119.22.1632.30903	F18
12	119.22.1632.44060	F19
14	119.22.1633.26507	F21
16	119.22.1633.52003	F23
18	119.22.1634.13700	F25
20	119.22.1623.54852	F27
22	119.22.1634.45113	F28G
24	119.22.1634.56790	L21
26	DEFLCAMB1014	
28	STRBRIBR1014	

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 6/6/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

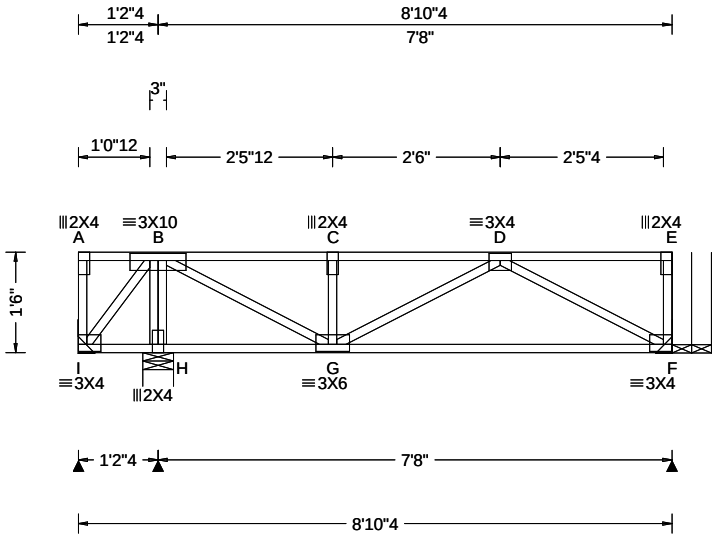
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 9

SEQN: 34954 SY42 FROM:	Ply: 1 Qty: 108	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F02	Cust: R 9316 JRef:1Xf493160007 T6 DrwNo: 119.22.1630.49143 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.018	C	999	480
VERT(CL): 0.034	C	999	360
HORZ(LL): 0.002	F	-	-
HORZ(TL): 0.004	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.299
Max BC CSI: 0.301
Max Web CSI: 0.162

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	28	/-43	/-	/-	/-	/-
H	525	/-	/-	/-	/-	/-
F	372	/-	/-	/-	/-	/-

I Brg Wid = - Min Req = -
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
F Brg Wid = - Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-485	C - D	0	-485

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	473	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - H	0	-499	D - F	0	-537
B - G	576	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

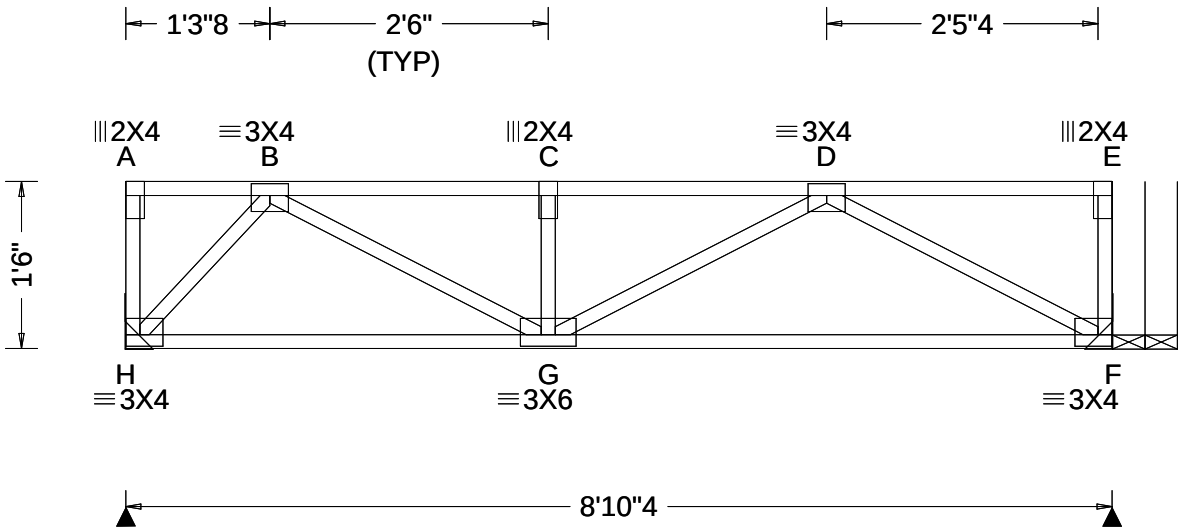
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34955 SY42 FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F03	Cust: R 9316 JRef:1Xf493160007 T7 DrwNo: 119.22.1630.58973 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.024	C	999	480
VERT(CL): 0.046	C	999	360
HORZ(LL): 0.004	B	-	-
HORZ(TL): 0.008	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.298
Max BC CSI: 0.324
Max Web CSI: 0.141

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	443	/-	/-	/-	/-	/-
F	443	/-	/-	/-	/-	/-

H Brg Wid = - Min Req = -
F Brg Wid = - Min Req = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-747	C - D	0	-747

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	606	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - B	0	-546	D - F	0	-687
B - G	426	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

04/29/2022

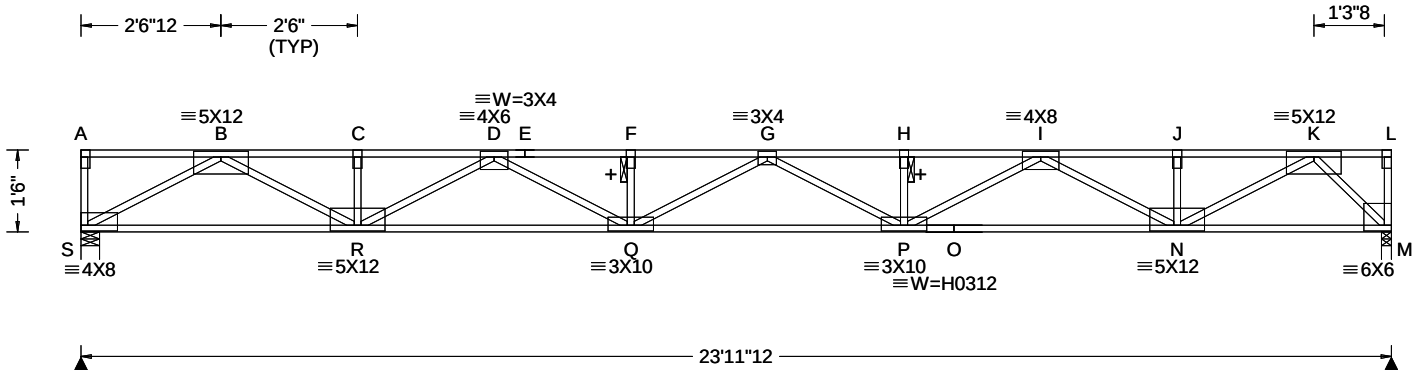
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34956 SY42 FROM:	Ply: 1 Qty: 96	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F11	Cust: R 9316 JRef:1Xf493160007 T28 DrwNo: 119.22.1631.05203 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.414	G	695	480
VERT(CL): 0.775	G	371	360
HORZ(LL): 0.057	M	-	-
HORZ(TL): 0.107	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.398
Max BC CSI: 0.672
Max Web CSI: 0.551

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	1199	/-	/-	/-	/-	/-
M	1199	/-	/-	/-	/-	/-

S Brg Wid = 4.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3522	G - H	0	-4917
C - D	0	-3522	H - I	0	-4917
D - E	0	-5123	I - J	0	-2895
E - F	0	-5123	J - K	0	-2895
F - G	0	-5123			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	2010	0	P - O	4106	0
R - Q	4523	0	O - N	4106	0
Q - P	5219	0	N - M	1183	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2281	P - I	925	0
B - R	1725	0	I - N	0	-1382
R - D	0	-1143	N - K	1954	0
D - Q	684	0	K - M	0	-1648

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

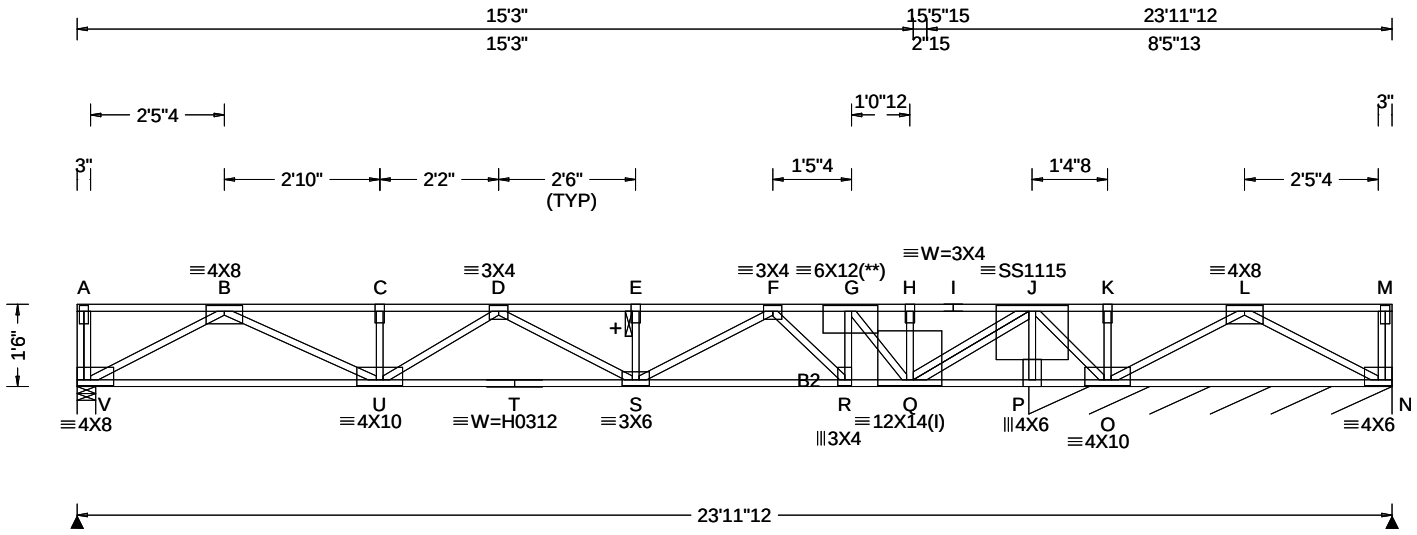
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34980 SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F12	Cust: R 9316 JRef:1Xf493160007 T1 DrwNo: 119.22.1631.15813 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.201	E	999	480
VERT(CL): 0.377	E	545	360
HORZ(LL): 0.029	B	-	-
HORZ(TL): 0.054	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.946
Max BC CSI: 0.960
Max Web CSI: 0.568

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	443	/-	/-	/-	/-	/-
N		/-304				

V Brg Wid = 4.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2615	G - H	0	-818
C - D	0	-2615	H - I	0	-818
D - E	0	-3202	I - J	0	-818
E - F	0	-3202	J - K	2031	0
F - G	0	-2426	K - L	2031	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1461	0	R - Q	2382	0
U - T	3059	0	Q - P	0	-2607
T - S	3059	0	P - O	0	-2607
S - R	2851	0	O - N	0	-784

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1680	G - Q	0	-2558
B - U	1283	0	Q - J	4025	0
U - D	0	-526	J - P	0	-2889
S - F	401	0	J - O	816	0
F - R	0	-615	O - L	0	-1423
R - G	488	0	L - N	897	0

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.98
BC: From 13 plf at 0.00 to 13 plf at 23.98
TC: 1500 lb Conc. Load at 14.06

Plating Notes
All plates are 2X4 except as noted.
(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

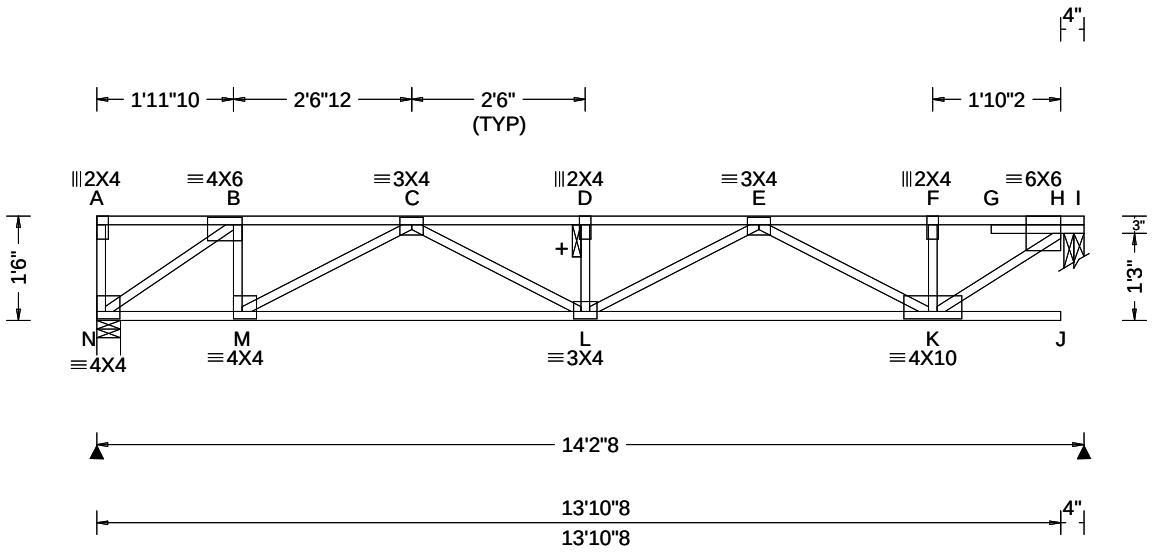
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 34958 SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F13	Cust: R 9316 JRef:1Xf493160007 T23 DrwNo: 119.22.1631.21820 / NDW 04/29/2022	



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.096	D	999	480
VERT(CL): 0.179	D	942	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.030	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.620
Max BC CSI: 0.537
Max Web CSI: 0.329

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
N	702	/-	/-	/-	/-	/-
H	714	/-	/-	/-	/-	/-

N Brg Wid = 4.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-943	E - F	0	-943
C - D	0	-1836	F - H	0	-942
D - E	0	-1836			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	905	0	L - K	1574	0
M - L	1582	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1104	E - K	0	-721
B - M	416	0	K - H	1166	0
M - C	0	-734			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

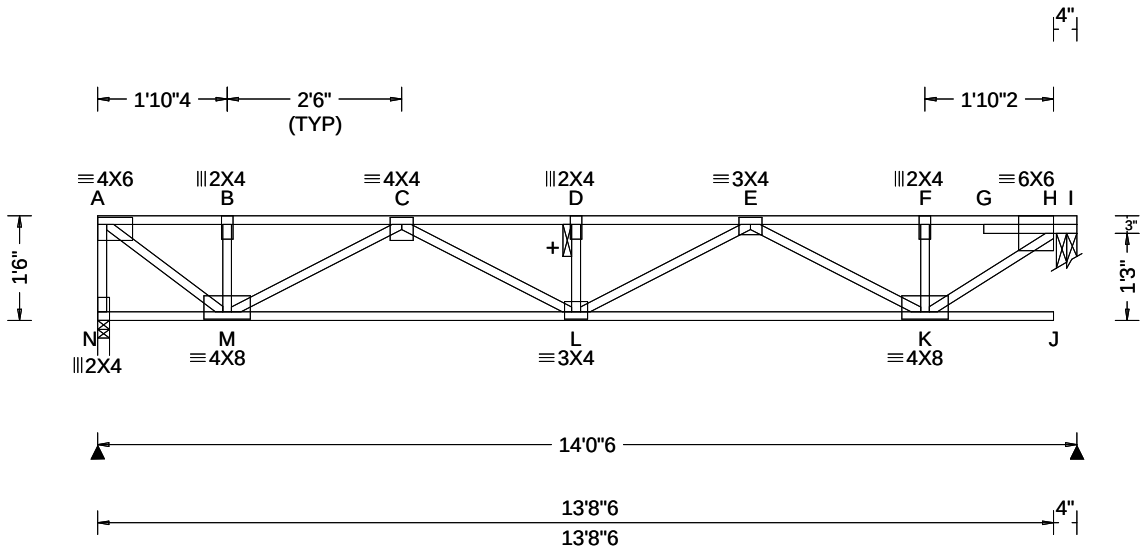
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 34959 SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F14	Cust: R 9316 JRef:1Xf493160007 T15 DrwNo: 119.22.1631.24717 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.093	D	999	480
VERT(CL): 0.174	D	955	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.612
Max BC CSI: 0.524
Max Web CSI: 0.324

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	693	/-	/-		/-	/-	/-
H	706	/-	/-		/-	/-	/-

N Brg Wid = 2.0 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-849	D - E	0	-1791
B - C	0	-849	E - F	0	-929
C - D	0	-1791	F - H	0	-929

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1520	0	L - K	1546	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-690	E - K	0	-703
A - M	1057	0	K - H	1150	0
M - C	0	-766			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

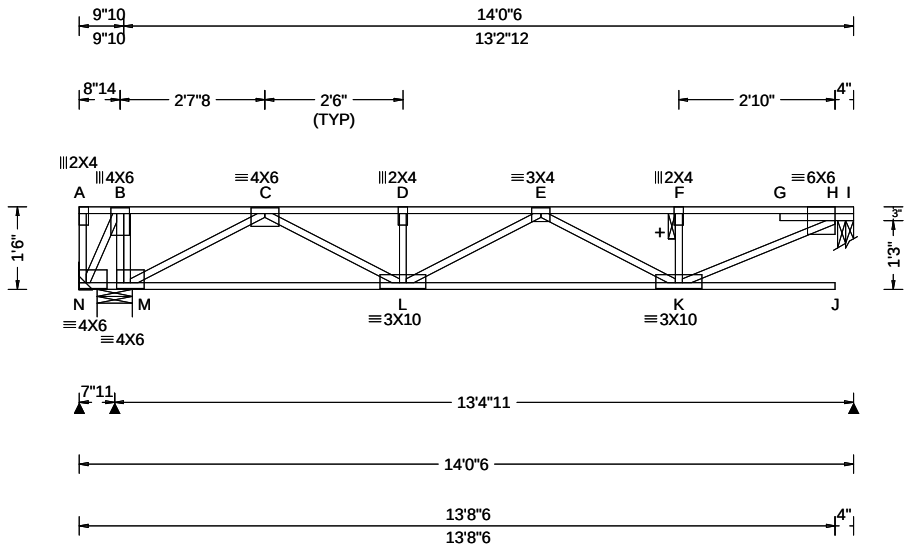
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34983 SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F15	Cust: R 9316 JRef:1Xf493160007 T26 DrwNo: 119.22.1631.44457 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.200	J	780	480
VERT(CL): 0.320	J	487	360
HORZ(LL): 0.011	C	-	-
HORZ(TL): 0.020	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.961
Max BC CSI: 0.588
Max Web CSI: 0.339

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-708	/-	/-	/-	/-
N	1480	/-	/-	/-	/-	/-
H	618	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
N Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	400	0	E - F	0	-1087
C - D	0	-1207	F - H	0	-1088
D - E	0	-1207			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	600	0	L - K	1318	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	685	0	C - L	693	0
B - M	0	-840	K - H	1201	0
M - C	0	-1141			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -708# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

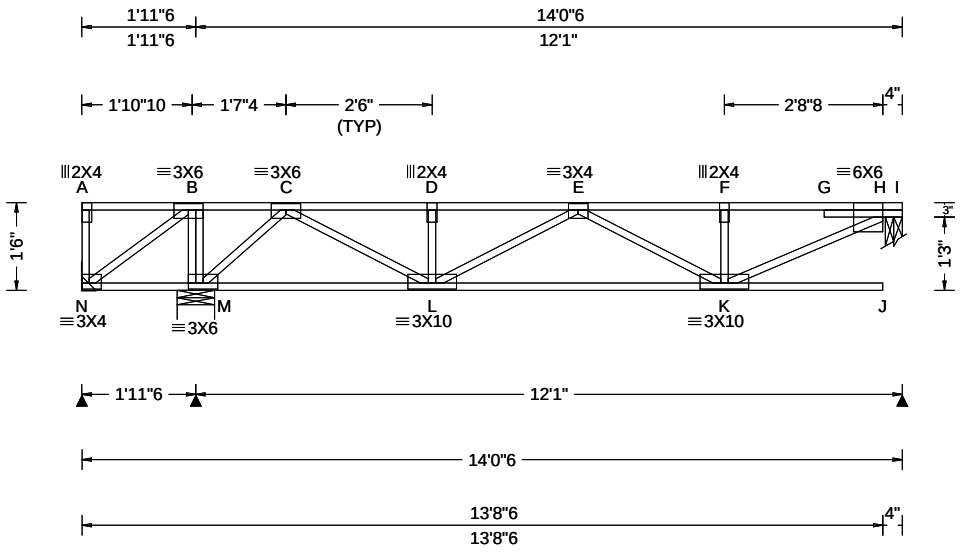
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34986 SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F16	Cust: R 9316 JRef:1Xf493160007 T33 DrwNo: 119.22.1631.56647 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.159	J	897	480
VERT(CL): 0.249	J	570	360
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.283

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-323	/-	/-	/-	/-
M	1131	/-	/-	/-	/-	/-
I	547	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	511	0	E - F	0	-901
C - D	0	-818	F - H	0	-903
D - E	0	-818			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-469	L - K	1034	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	580	0	C - L	816	0
B - M	0	-512	K - H	1004	0
M - C	0	-842			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

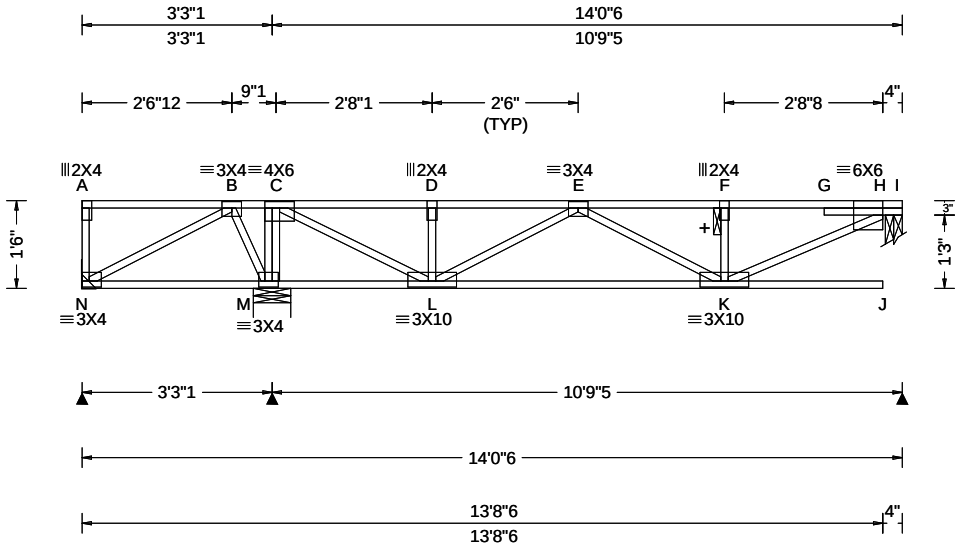
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34989 SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F17	Cust: R 9316 JRef:1Xf493160007 T20 DrwNo: 119.22.1632.15587 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	870	480
VERT(CL): 0.233	J	550	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.749
Max BC CSI: 0.437
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
N	57 /-122	/-	/-	/-	/-	
M	959 /-	/-	/-	/-	/-	
I	491 /-	/-	/-	/-	/-	

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	423	0	E - F	0	- 784
C - D	0	- 500	F - H	0	- 785
D - E	0	- 500			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	818	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	- 627	K - H	874	0
C - L	963	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

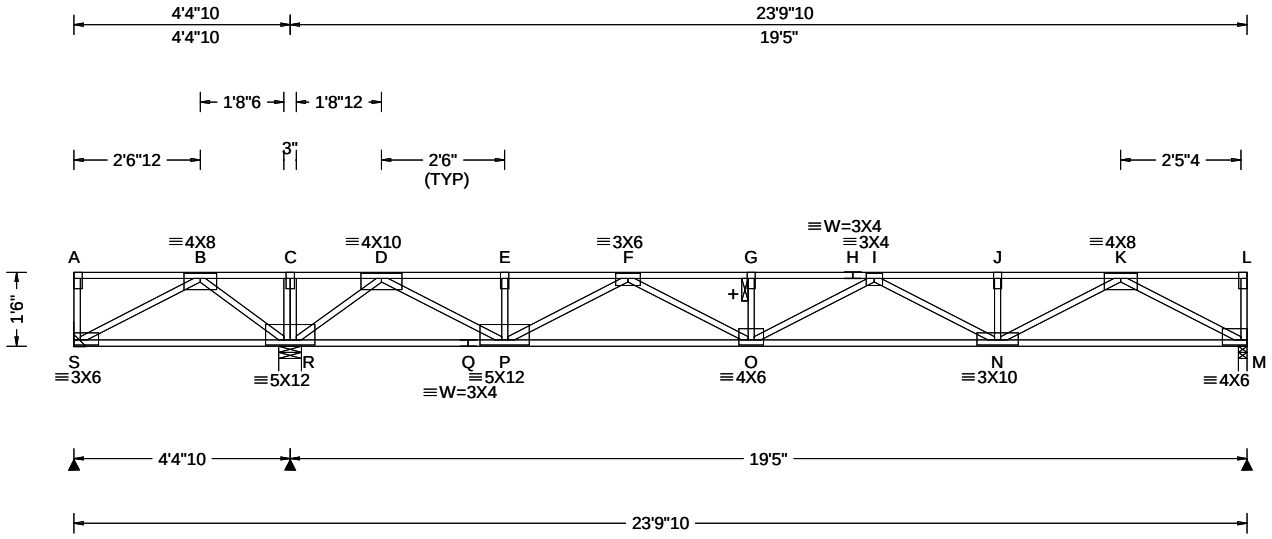
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 34963 SY42 FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18	Cust: R 9316 JRef:1Xf493160007 T16 DrwNo: 119.22.1632.30903 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	G	999	480
VERT(CL): 0.371	G	628	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.796
Max Web CSI: 0.466

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	-	/-458	/-	/-	/-	/-
R	1886	/-	/-	/-	/-	/-
M	844	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1750	0	G - H	0	- 2537
C - D	1750	0	H - I	0	- 2537
D - E	0	- 1040	I - J	0	- 2220
E - F	0	- 1040	J - K	0	- 2220
F - G	0	- 2537			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	- 955	P - O	1987	0
R - Q	0	- 427	O - N	2580	0
Q - P	0	- 427	N - M	1352	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1084	0	F - O	631	0
B - R	0	- 1117	I - N	0	- 411
R - D	0	- 1648	N - K	991	0
D - P	1653	0	K - M	0	- 1535
P - F	0	- 1085			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -458# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

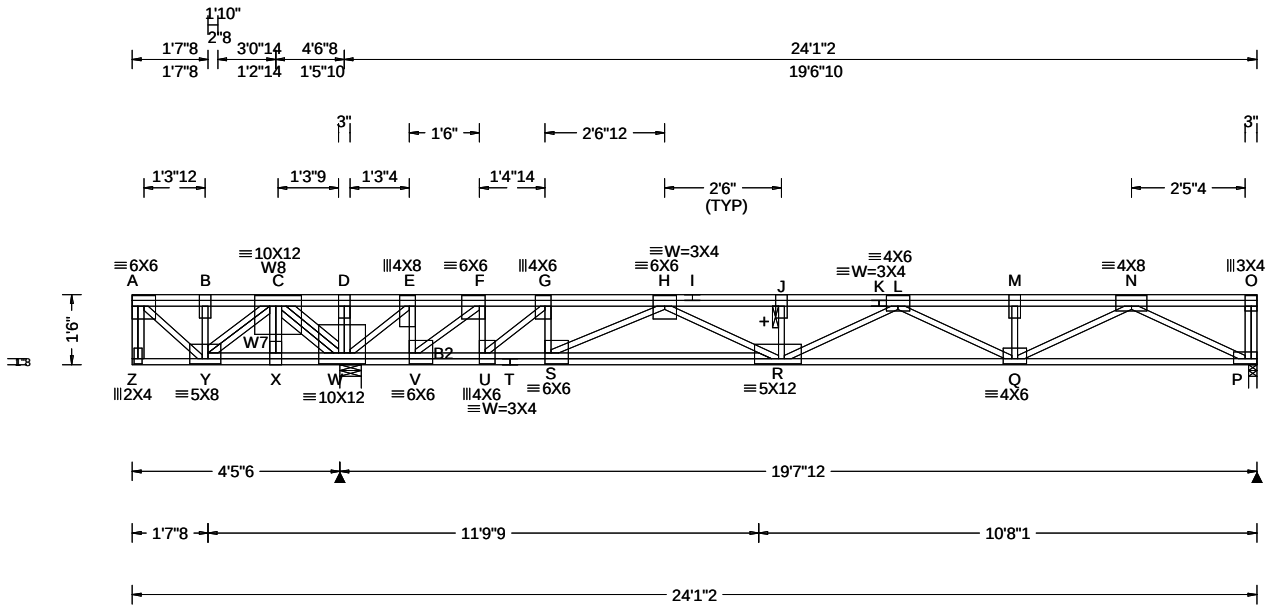
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34964 / SY42 FROM:	Ply: 2 Qty: 6	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18G	Cust: R 9316 JRef:1Xf493160007 T17 / DrwNo: 119.22.1623.54938 / NDW 04/29/2022

2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.124 Z 435 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.263 Z 408 360
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): -0.027 A - -
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.058 A - -
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.885
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.247
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Varies by Ld Case	Max Web CSI: 0.249
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	VIEW Ver: 21.02.00.1005.17
	I: NA GCpi: NA	WAVE	
	Wind Duration: NA		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	8317	/-	/-	/-	/-	/-
P	962	/-165	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	420	0	H - I	1554	-1705
B - C	420	0	I - J	1554	-1705
C - D	4753	0	J - K	1551	-1711
D - E	4749	0	K - L	1551	-1711
E - F	4209	-367	L - M	534	-1347
F - G	3615	-827	M - N	534	-1347
G - H	3087	-1193			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	-1228	T - S	1169	-3130
X - W	0	-1219	S - R	1563	-2265
W - V	329	-4254	R - Q	1631	-993
V - U	793	-3663	Q - P	784	-222
U - T	1169	-3130			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	-548	G - S	539	0
Y - C	1053	0	S - H	0	-1139
C - W	0	-4787	H - R	869	0
W - E	0	-999	R - L	89	-626
E - V	636	0	L - Q	518	-321
V - F	0	-1035	Q - N	636	-353
F - U	652	0	N - P	250	-860
U - G	0	-919			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7,W8 4x2 DF-L 2400f-2.0E;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes

All plates are 3X6 except as noted.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

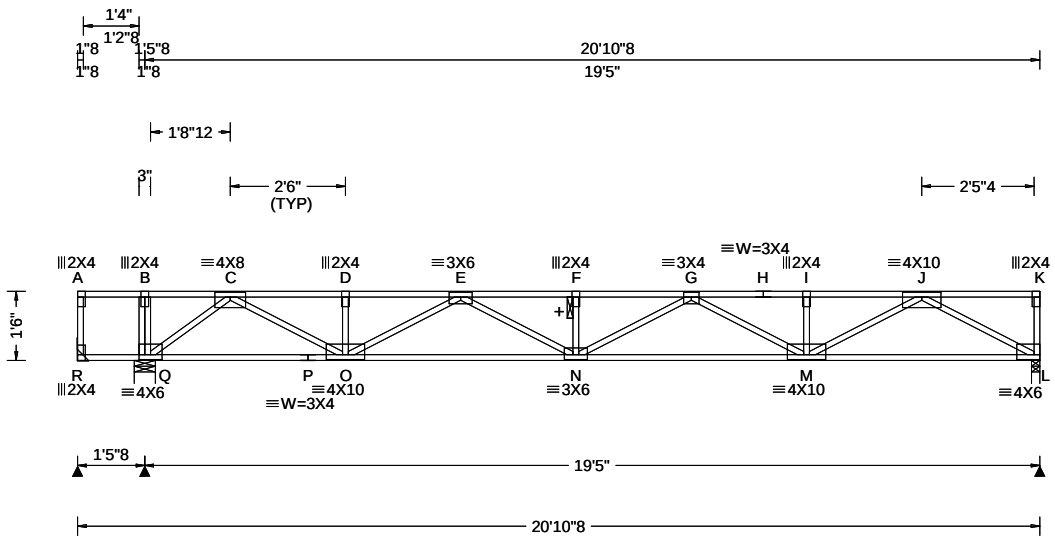
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 34965 SY42 FROM:	Ply: 1 Qty: 72	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19	Cust: R 9316 JRef:1Xf493160007 T34 DrwNo: 119.22.1632.44060 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.246	F	943	480
VERT(CL): 0.462	F	502	360
HORZ(LL): 0.038	L	-	-
HORZ(TL): 0.072	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.485
Max BC CSI: 0.960
Max Web CSI: 0.397

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	27	/-42	/-	/-	/-	/-
Q	1134	/-	/-	/-	/-	/-
L	962	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	- 2320	G - H	0	- 2651
D - E	0	- 2320	H - I	0	- 2651
E - F	0	- 3393	I - J	0	- 2651
F - G	0	- 3393			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1089	0	N - M	3224	0
P - O	1089	0	M - L	1570	0
O - N	3055	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - C	0	- 1383	G - M	0	- 654
C - O	1407	0	M - J	1233	0
O - E	0	- 839	J - L	0	- 1782
E - N	387	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

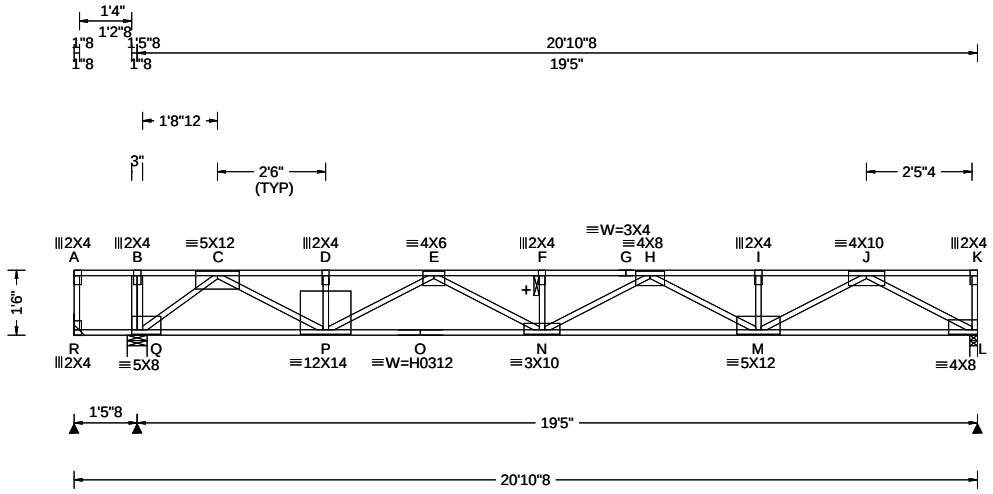
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34966 SY42 FROM:	Ply: 2 Qty: 12	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19G	Cust: R 9316 JRef:1Xf493160007 T8 DrwNo: 119.22.1633.01010 / NDW 04/29/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.290	F	799	480
VERT(CL): 0.545	F	426	360
HORZ(LL): 0.041	C	-	-
HORZ(TL): 0.076	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.583
Max BC CSI: 0.585
Max Web CSI: 0.629

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	24	/-58	/-	/-	/-	/-
Q	3942	/-	/-	/-	/-	/-
L	1997	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-3789	G - H	0	-5138
D - E	0	-3789	H - I	0	-3219
E - F	0	-5138	I - J	0	-3219
F - G	0	-5138			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1835	0	N - M	4478	0
P - O	4877	0	M - L	1748	0
O - N	4877	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - Q	0	-465	F - N	0	-473
Q - C	0	-2340	N - H	753	0
C - P	2229	0	H - M	0	-1437
D - P	0	-467	M - J	1679	0
P - E	0	-1242	J - L	0	-1984

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
Webs: 4x2 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 20.88
BC: From 13 plf at 0.00 to 13 plf at 20.88
TC: 443 lb Conc. Load at 0.94
TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27 7.60, 8.94,10.27,11.60,12.94

Deflection
Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

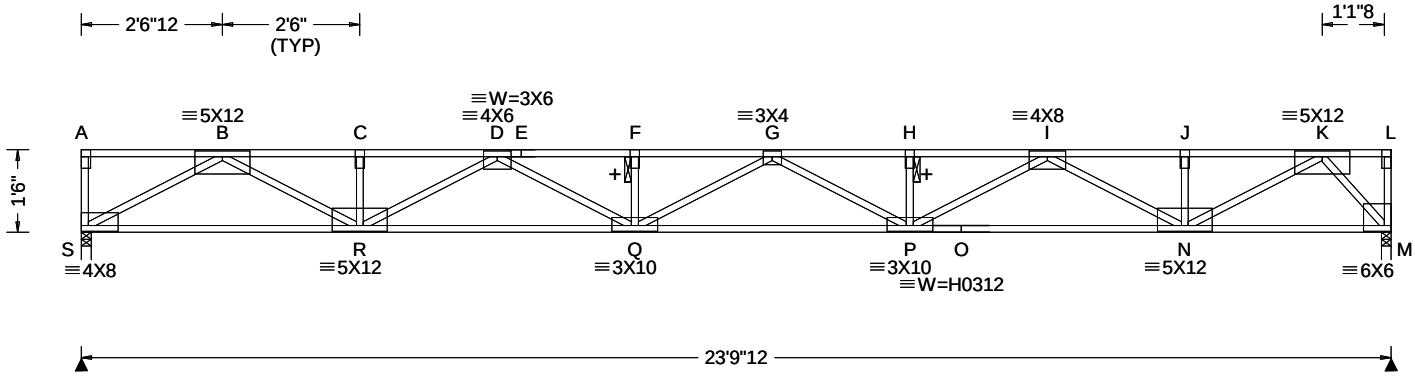
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 34967 SY42 FROM:	Ply: 1 Qty: 96	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F21	Cust: R 9316 JRef:1Xf493160007 T19 DrwNo: 119.22.1633.26507 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.419	G	682	480
VERT(CL): 0.785	G	364	360
HORZ(LL): 0.056	M	-	-
HORZ(TL): 0.104	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.442
Max BC CSI: 0.664
Max Web CSI: 0.556

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	1191	/-	/-	/-	/-	/-
M	1191	/-	/-	/-	/-	/-

S Brg Wid = 2.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3491	G - H	0	-4826
C - D	0	-3491	H - I	0	-4826
D - E	0	-5062	I - J	0	-2773
E - F	0	-5062	J - K	0	-2773
F - G	0	-5062			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	1995	0	P - O	4000	0
R - Q	4479	0	O - N	4000	0
Q - P	5145	0	N - M	1047	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2264	P - I	942	0
B - R	1707	0	I - N	0	-1401
R - D	0	-1127	N - K	1969	0
D - Q	665	0	K - M	0	-1557

Lumber
Top chord: 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

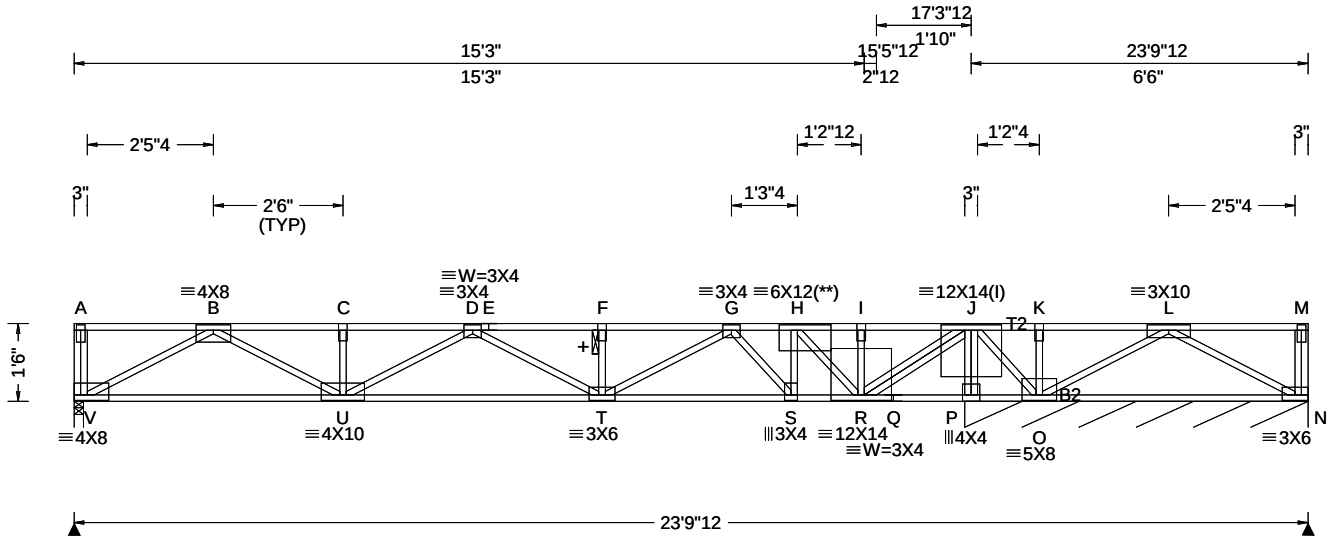
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 9

SEQN: 34968 SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F22	Cust: R 9316 JRef:1Xf493160007 T2 DrwNo: 119.22.1633.45973 / NDW 04/29/2022	



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.179 F	999	480
VERT(CL):	0.335 F	613	360
HORZ(LL):	0.026 B	-	-
HORZ(TL):	0.049 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.504
Max BC CSI: 0.472
Max Web CSI: 0.548

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	441	/-	/-	/-	/-	/-
N		/-246				

V Brg Wid = 2.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2565	G - H	0	-2521
C - D	0	-2565	H - I	0	-698
D - E	0	-3256	I - J	0	-698
E - F	0	-3256	J - K	1825	0
F - G	0	-3256	K - L	1825	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1507	0	R - Q	0	-2561
U - T	3113	0	Q - P	0	-2561
T - S	2904	0	P - O	0	-2561
S - R	2477	0	O - N	0	-681

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1714	H - R	0	-2670
B - U	1208	0	R - J	3882	0
U - D	0	-625	J - P	0	-3088
T - G	402	0	J - O	1065	0
G - S	0	-598	O - L	0	-1307
S - H	486	0	L - N	779	0

Lumber

Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)

TC: From	87 plf at	0.00 to	87 plf at	23.81
BC: From	13 plf at	0.00 to	13 plf at	23.81

TC: 1500 lb Conc. Load at 13.90

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

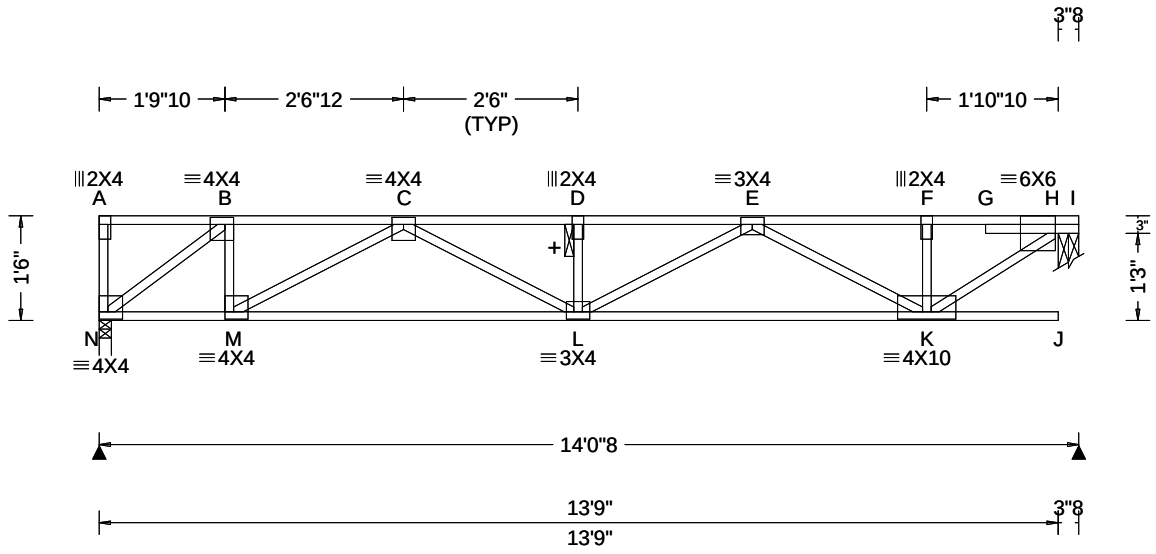
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34969 SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F23	Cust: R 9316 JRef:1Xf493160007 T25 DrwNo: 119.22.1633.52003 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.092	D	999	480
VERT(CL): 0.172	D	970	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.029	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.613
Max BC CSI: 0.522
Max Web CSI: 0.325

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	694	/-	/-	/-	/-	/-
H	707	/-	/-	/-	/-	/-

N Brg Wid = 2.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-869	E - F	0	-931
C - D	0	-1793	F - H	0	-930
D - E	0	-1793			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	831	0	L - K	1548	0
M - L	1525	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1045	E - K	0	-704
B - M	425	0	K - H	1152	0
M - C	0	-752			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

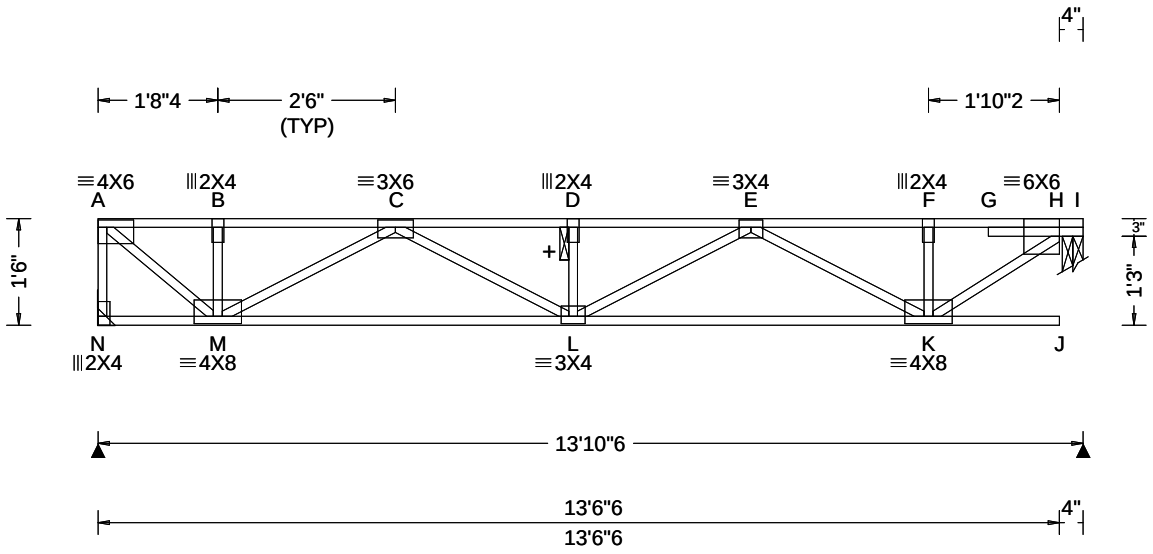
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34970 SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F24	Cust: R 9316 JRef:1Xf493160007 T3 DrwNo: 119.22.1633.59170 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.090	D	999	480
VERT(CL): 0.167	D	982	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.604
Max BC CSI: 0.513
Max Web CSI: 0.320

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	685	/-	/-	/-	/-	/-
H	697	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-776	D - E	0	-1749
B - C	0	-776	E - F	0	-917
C - D	0	-1749	F - H	0	-916

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1463	0	L - K	1518	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-684	E - K	0	-687
A - M	1001	0	K - H	1134	0
M - C	0	-784			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

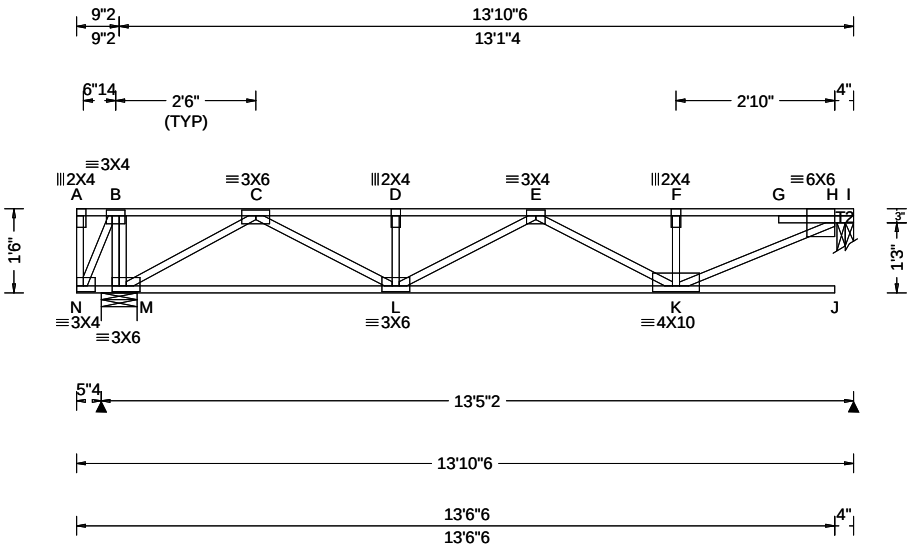
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34992 SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F25	Cust: R 9316 JRef:1Xf493160007 T11 DrwNo: 119.22.1634.13700 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	J	784	480
VERT(CL): 0.316	J	488	360
HORZ(LL): 0.013	A	-	-
HORZ(TL): 0.024	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.609
Max BC CSI: 0.630
Max Web CSI: 0.367

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
M	729	/-	/-		/-	/-	/-
H	659	/-	/-		/-	/-	/-

M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-1447	E - F	0	-1177
D - E	0	-1447	F - H	0	-1178

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	912	0	L - K	1482	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	-1015	K - H	1301	0
C - L	614	0			

Lumber

Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

04/29/2022

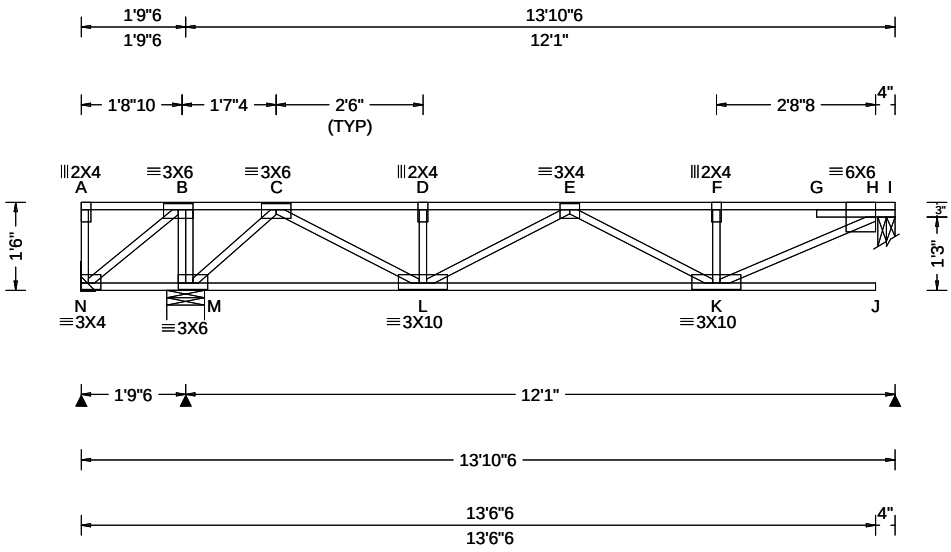
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34995 / SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F26	Cust: R 9316 JRef:1Xf493160007 T5 / DrwNo: 119.22.1623.54920 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.158	J	897	480
VERT(CL): 0.249	J	570	360
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.284

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
N	- /-358	/-	/-	/-	/-	
M	1154 /-	/-	/-	/-	/-	
H	547 /-	/-	/-	/-	/-	

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	510	0	E - F	0	-902
C - D	0	-819	F - H	0	-903
D - E	0	-819			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-465	L - K	1035	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	596	0	C - L	815	0
B - M	0	-533	K - H	1005	0
M - C	0	-843			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

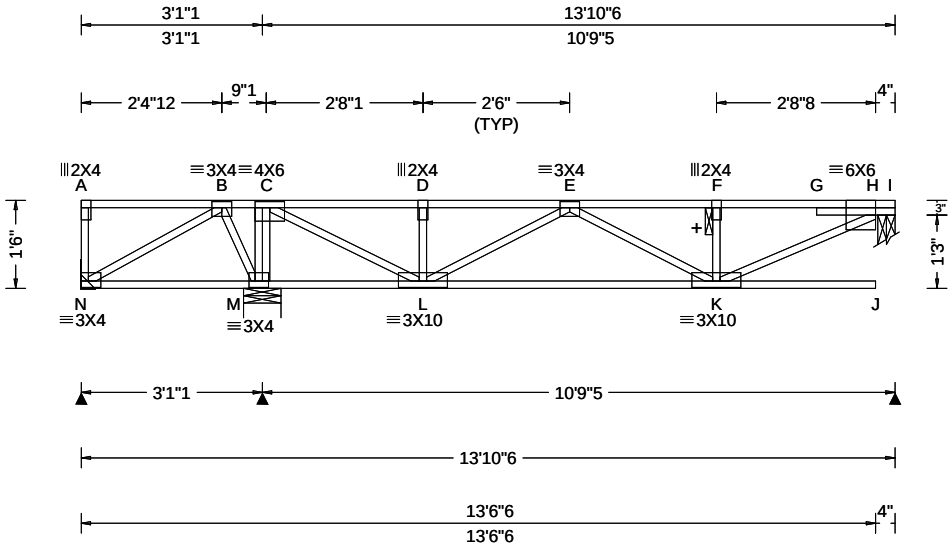
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 9

SEQN: 34998 / SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F27	Cust: R 9316 JRef:1Xf493160007 T9 / DrwNo: 119.22.1623.54852 / NDW 04/29/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	869	480
VERT(CL): 0.233	J	549	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.748
Max BC CSI: 0.436
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
N	44 /-139	/-	/-	/-	/-	
M	963 /-	/-	/-	/-	/-	
H	491 /-	/-	/-	/-	/-	

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	427	0	E - F	0	- 782
C - D	0	- 495	F - H	0	- 784
D - E	0	- 495			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	815	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	- 633	K - H	872	0
C - L	964	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

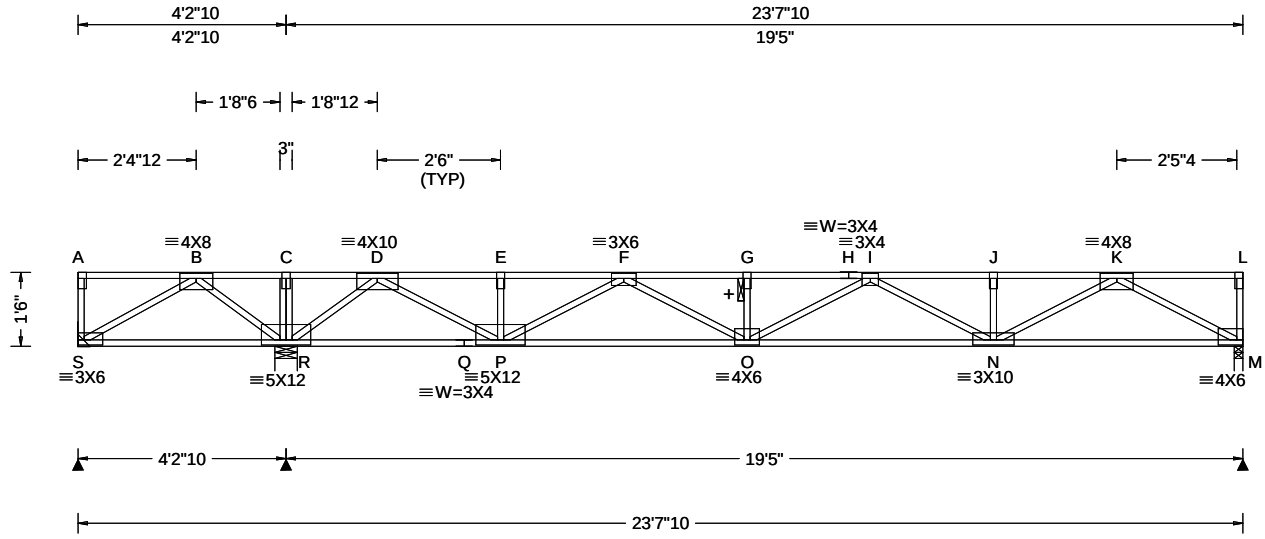
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 9

SEQN: 34974 / SY42 FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F28	Cust: R 9316 JRef:1Xf493160007 T10 / DrwNo: 119.22.1623.54939 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.196	G	999	480
VERT(CL): 0.369	G	630	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.795
Max Web CSI: 0.467

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	-	/-490	/-	/-	/-	/-
R	1906	/-	/-	/-	/-	/-
M	843	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1763	0	G - H	0	- 2527
C - D	1763	0	H - I	0	- 2527
D - E	0	- 1026	I - J	0	- 2216
E - F	0	- 1026	J - K	0	- 2216
F - G	0	- 2527			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	- 944	P - O	1976	0
R - Q	0	- 440	O - N	2573	0
Q - P	0	- 440	N - M	1350	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1088	0	F - O	633	0
B - R	0	- 1142	I - N	0	- 408
R - D	0	- 1649	N - K	988	0
D - P	1656	0	K - M	0	- 1532
P - F	0	- 1087			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -490# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

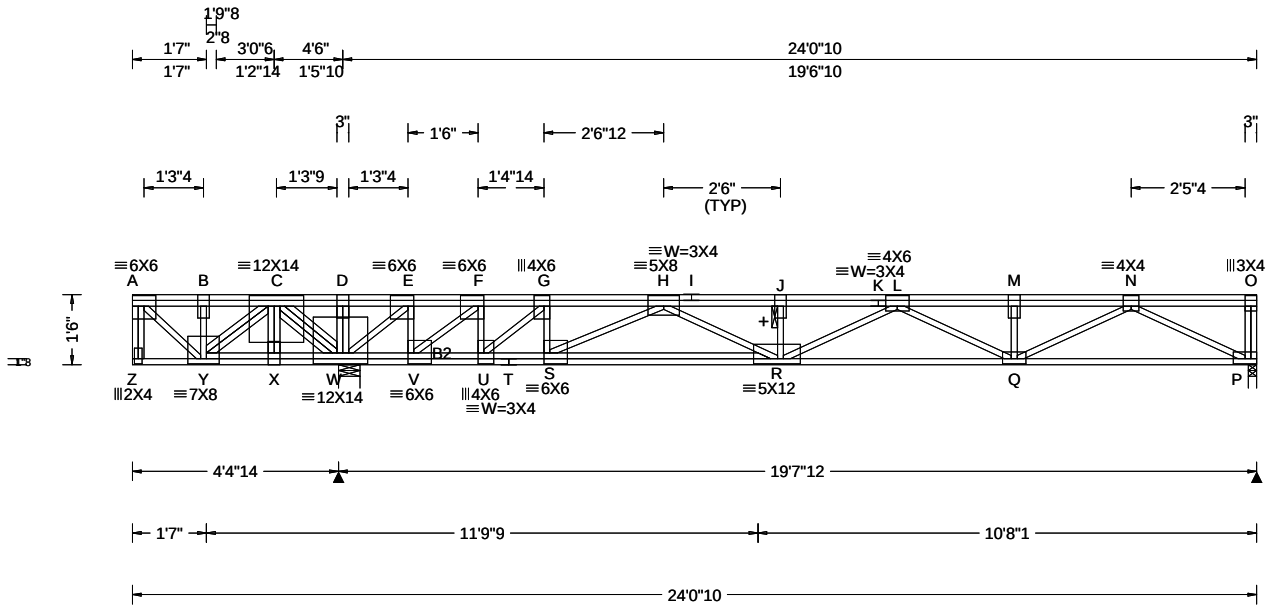
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 34975 SY42 FROM:	Ply: 2 Qty: 6	**Job Number:** JB-220689 McCambridge Brothers Construction Customer:MCCAMBRIDGE BROTHERS CONS Address:210 **Truss Label:** F28G	Cust: R 9316 JRef:1Xf493160007 T12 DrwNo: 119.22.1634.45113 / NDW 04/29/2022	

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.120	A	443	480
VERT(CL): 0.268	Z	198	360
HORZ(LL): -0.025	A	-	-
HORZ(TL): 0.057	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.433
Max BC CSI: 0.260
Max Web CSI: 0.271

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
W	8750	/-	/-	/-	/-	/-
P	618	/-243	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	597	0	H - I	1855	-383
B - C	597	0	I - J	1855	-383
C - D	5342	0	J - K	1853	-389
D - E	5337	0	K - L	1853	-389
E - F	4767	0	L - M	685	-689
F - G	4126	0	M - N	685	-689
G - H	3551	0			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	-1645	T - S	0	-3597
X - W	0	-1635	S - R	0	-2646
W - V	0	-4815	R - Q	647	-1215
V - U	0	-4178	Q - P	456	-296
U - T	0	-3597			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	-789	G - S	577	0
Y - C	1366	0	S - H	0	-1230
C - W	0	-5021	H - R	961	0
W - E	0	-1030	R - L	0	-716
E - V	677	0	L - Q	599	0
V - F	0	-1093	Q - N	264	-439
F - U	694	0	N - P	330	-495
U - G	0	-980			

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.05
BC: From 13 plf at 0.00 to 13 plf at 24.05
TC: 1129 lb Conc. Load at 0.12
TC: 5500 lb Conc. Load at 3.03

Plating Notes

All plates are 3X6 except as noted.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

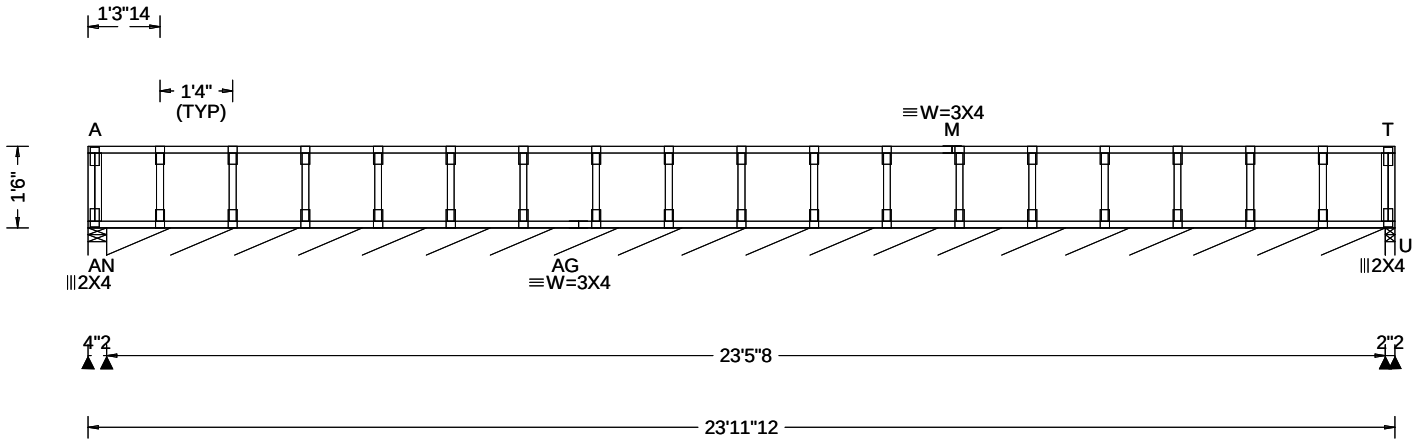
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34976 SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L11	Cust: R 9316 JRef:1Xf493160007 T29 DrwNo: 119.22.1634.48753 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	T	999	480
VERT(CL): 0.001	T	999	360
HORZ(LL): -0.003	B	-	-
HORZ(TL): 0.005	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.060
Max BC CSI: 0.013
Max Web CSI: 0.018

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AN	68 /-	/-	/-	/-	/-
AN*	97 /-	/-	/-	/-	/-
U	64 /-	/-	/-	/-	/-

AN Brg Wid = 4.1 Min Req = 1.5 (Truss)
AN Brg Wid = 281 Min Req = -
U Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AN, AN, & U are a rigid surface.
Members not listed have forces less than 375#

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing
Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 2X4 except as noted.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

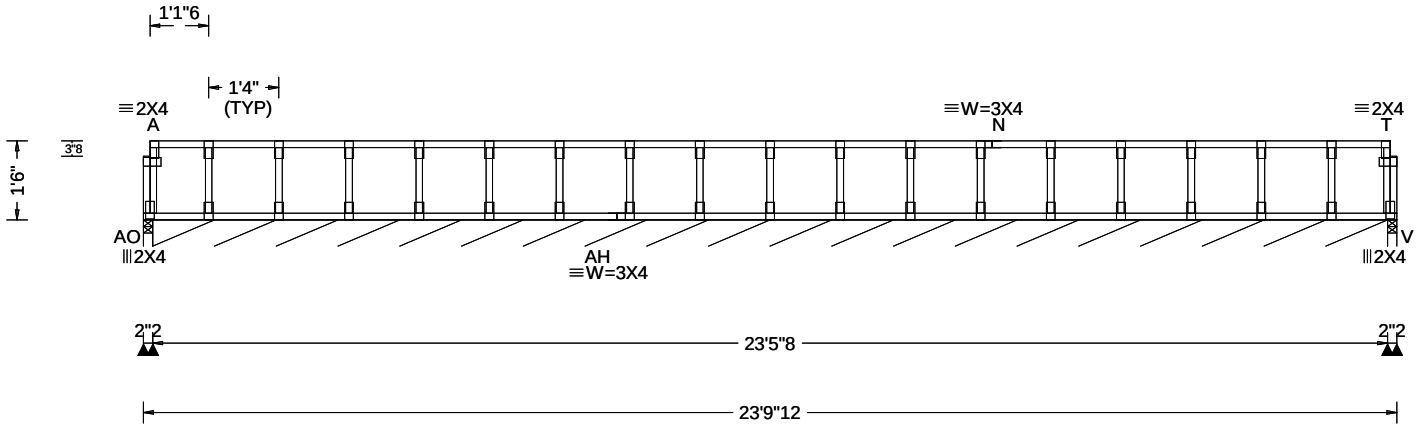
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34977 SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220689 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L21	Cust: R 9316 JRef:1Xf493160007 T30 DrwNo: 119.22.1634.56790 / NDW 04/29/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	T	999	480
VERT(CL): 0.000	T	999	360
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.057
Max BC CSI: 0.009
Max Web CSI: 0.018

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AO	48 /-	/-	/-	/-	/-
AO	*97 /-	/-	/-	/-	/-
V	48 /-	/-	/-	/-	/-

AO Brg Wid = 2.1 Min Req = 1.5 (Truss)
AO Brg Wid = 281 Min Req = -
V Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AO, AO, & V are a rigid surface.
Members not listed have forces less than 375#

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing
Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 2X4 except as noted.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.

04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

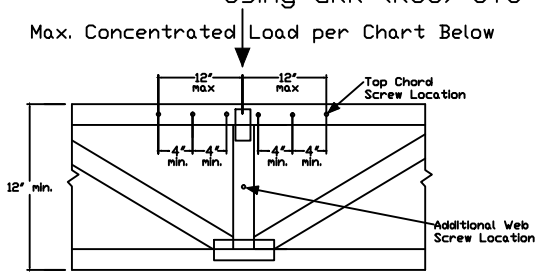
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

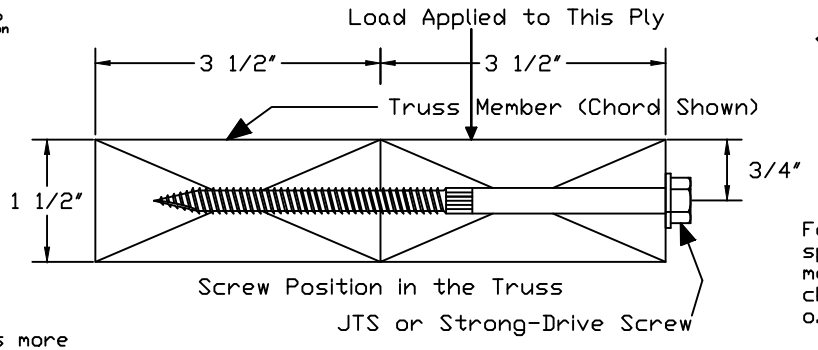
ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

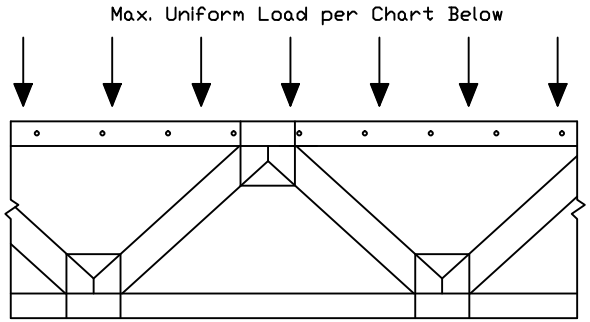
System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.



Refer to Alpine sealed drawing for individual truss design.





Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200

ALPINE® ITW COMPANY

Texas Registered Engineering Firm F-3199
1250 Capital of Texas Hwy, Building 3, Suite 600, Floor 6
Austin, Texas 78746
(512) 777-1025

MiTek

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL	PSF	REF SY42 Connection
TC DL	PSF	DATE 01/19/2018
BC DL	PSF	DRWG CNSY42PL0118
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.	1.00	
SPACING		

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

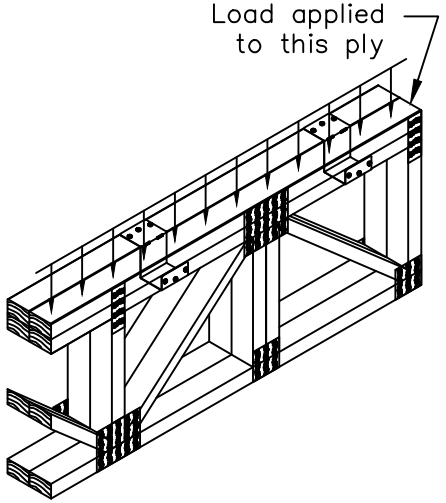
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL

FOR DOWNWARD LOADS ONLY

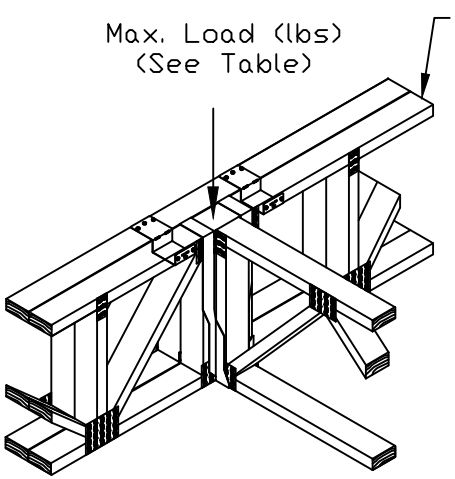
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application



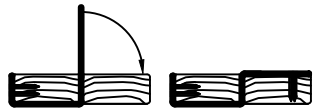
Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

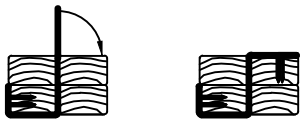
Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.

2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.

****WARNING!** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

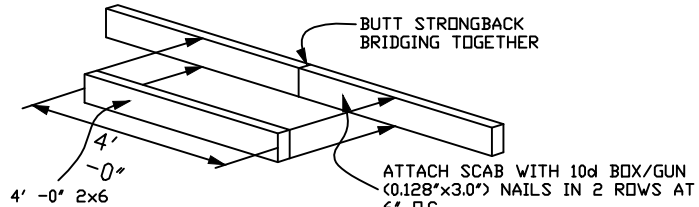
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

ALPINE® ITW COMPANY
Floor
025

DUR. FAC. ALL

REF	SY42 Connection
DATE	10/01/14
DRWG	LSCSYX2A1014

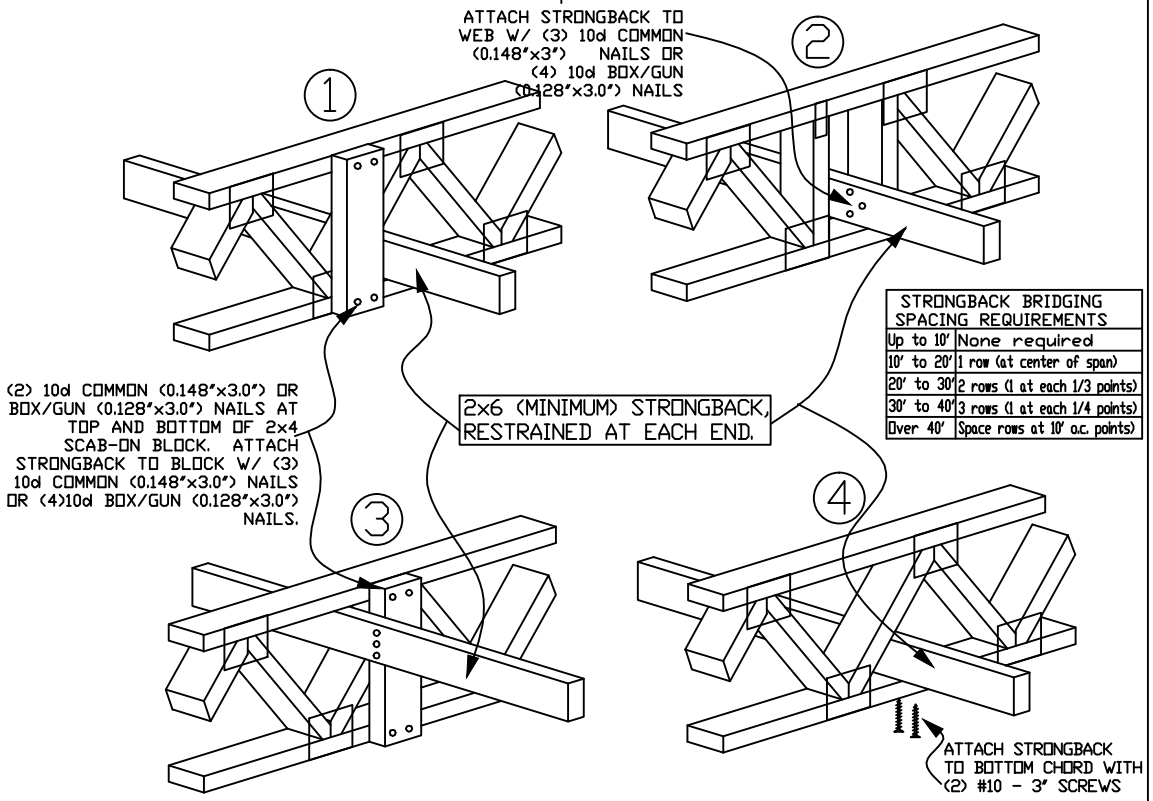
STRONGBACK BRIDGING RECOMMENDATIONS



NOTE: IN LIEU OF SPLICING AS SHOWN, LAP STRONGBACK BRIDGING MEMBERS FOR AT LEAST ONE TRUSS SPACING

STRONGBACK BRIDGING SPLICE DETAIL

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING SPACING REQUIREMENTS	
Up to 10'	None required
10' to 20'	1 row (at center of span)
20' to 30'	2 rows (1 at each 1/3 points)
30' to 40'	3 rows (1 at each 1/4 points)
Over 40'	Space rows at 10' o.c. points)

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

- All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

ALPINE® ITW COMPANY

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL	PSF	REF STRONGBACK
TC DL	PSF	DATE 10/01/14
BC DL	PSF	DRWG STRBRIBR1014
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.	1.00	
SPACING		

Building 10

BOB D. CAMPBELL & CO., INC.

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 10 Truss	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

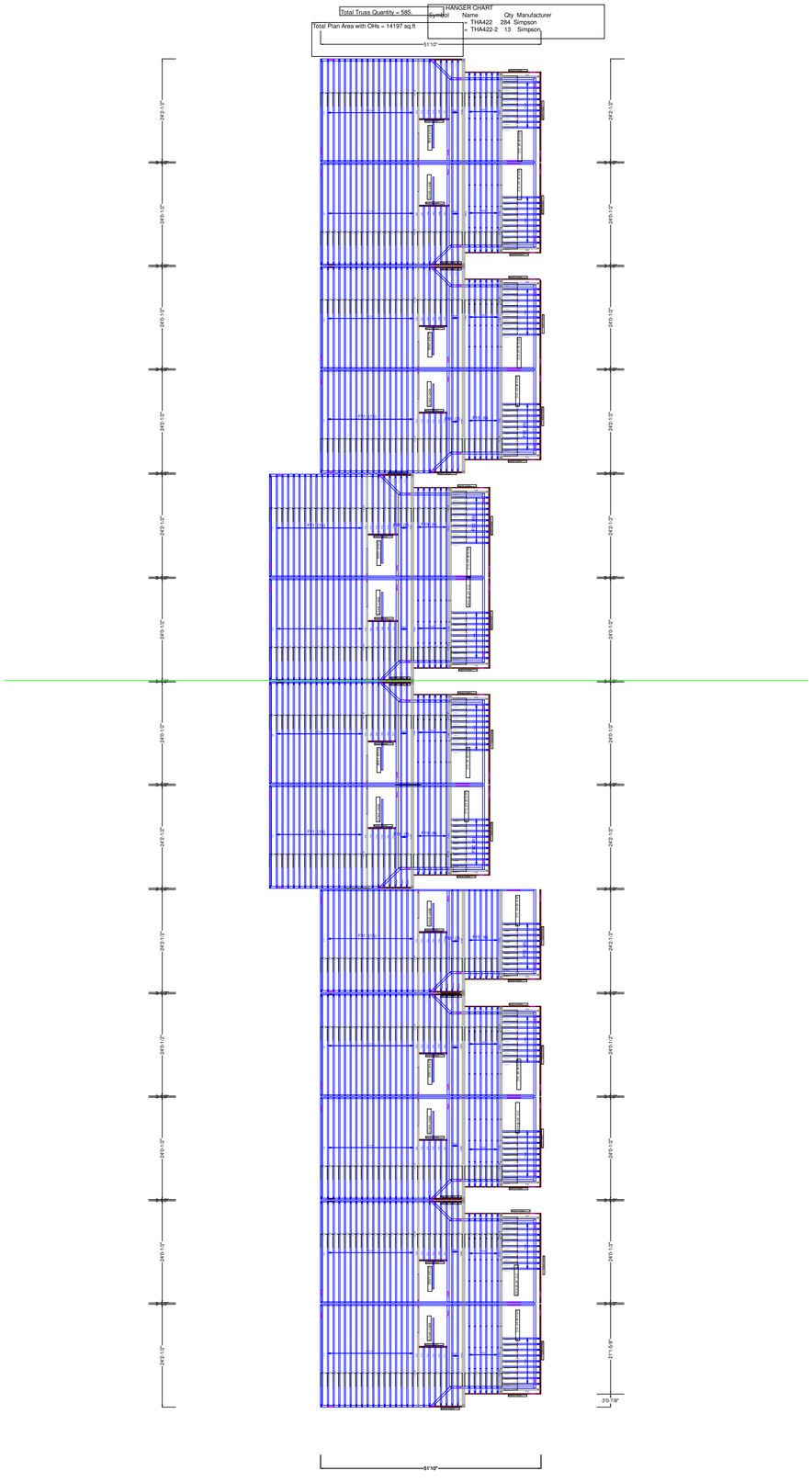
Building 10

GROUP 10 FLOOR LAYOUT

Total Truss Quantity = 585
Total Plan Area with OHs = 14197 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
▲	THA422	284	Simpson
▲	THA422-2	13	Simpson



ROOF TRUSS LAYOUT (NTS)

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE 05/30/2022 BY CB

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 6/6/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRi ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

Job Name: McCambridge Brothers Construction

Designer: Juan R Quiroz

Date: 5/12/2022

Reference #: JB-220691

mill Creek
3363 S. Halstead Rd.
Hesston, KS 67062
(316) 830-6108

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

Building 10

05/13/2022

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 6/6/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

ALPINE an ITW COMPANY

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED. REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 *BY:* CB

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

Site Information:	**Page 1:**
Customer: Mill Creek Truss	*Job Number:* JB-220691
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1XfH93160008
Wind Standard: ASCE716 *Wind Speed (mph):* None *Building Type:*	*Design Loading (psf):* 75.00

This package contains general notes pages, 24 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	132.22.2232.43915	F02
3	132.22.2232.45668	F11
5	132.22.2232.45371	F13
7	132.22.2232.45300	F15
9	132.22.2232.45762	F17
11	132.22.2232.45641	F18G
13	132.22.2232.45941	F19G
15	132.22.2232.45742	F22
17	132.22.2232.43925	F24
19	132.22.2232.44353	F26
21	132.22.2232.44117	F28
23	132.22.2232.45407	L11
25	CNSY42PL0118	
27	LSCSYX2A1014	

Item	Drawing Number	Truss
2	132.22.2232.45338	F03
4	132.22.2232.45472	F12
6	132.22.2232.45029	F14
8	132.22.2232.45629	F16
10	132.22.2232.43926	F18
12	132.22.2232.45880	F19
14	132.22.2232.43856	F21
16	132.22.2232.45249	F23
18	132.22.2232.45509	F25
20	132.22.2232.43924	F27
22	132.22.2232.43904	F28G
24	132.22.2232.45633	L21
26	DEFLCAMB1014	
28	STRBRIBR1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

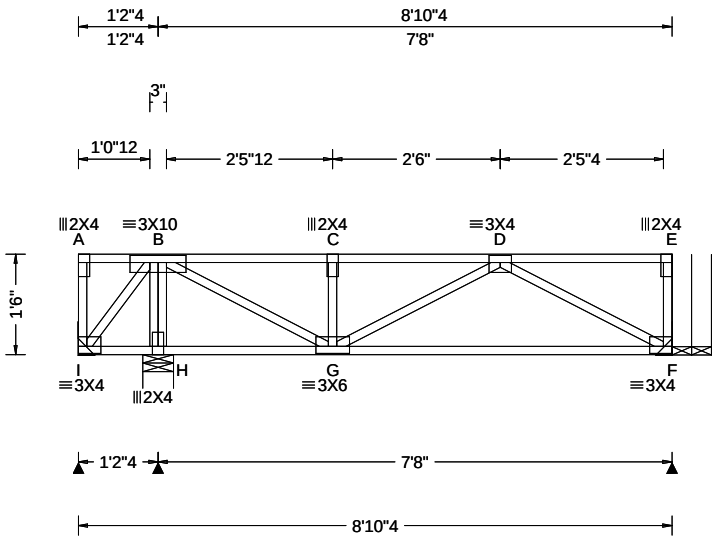
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 10

SEQN: 97521 / SY42 FROM:	Ply: 1 Qty: 117	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F02	Cust: R 9316 JRef:1XfH93160008 T6 DrwNo: 132.22.2232.43915 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.018	C	999	480
VERT(CL): 0.034	C	999	360
HORZ(LL): 0.002	F	-	-
HORZ(TL): 0.004	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.299
Max BC CSI: 0.301
Max Web CSI: 0.162

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	28	/-43	/-	/-	/-	/-
H	525	/-	/-	/-	/-	/-
F	372	/-	/-	/-	/-	/-

I Brg Wid = - Min Req = -
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
F Brg Wid = - Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-485	C - D	0	-485

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	473	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - H	0	-499	D - F	0	-537
B - G	576	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

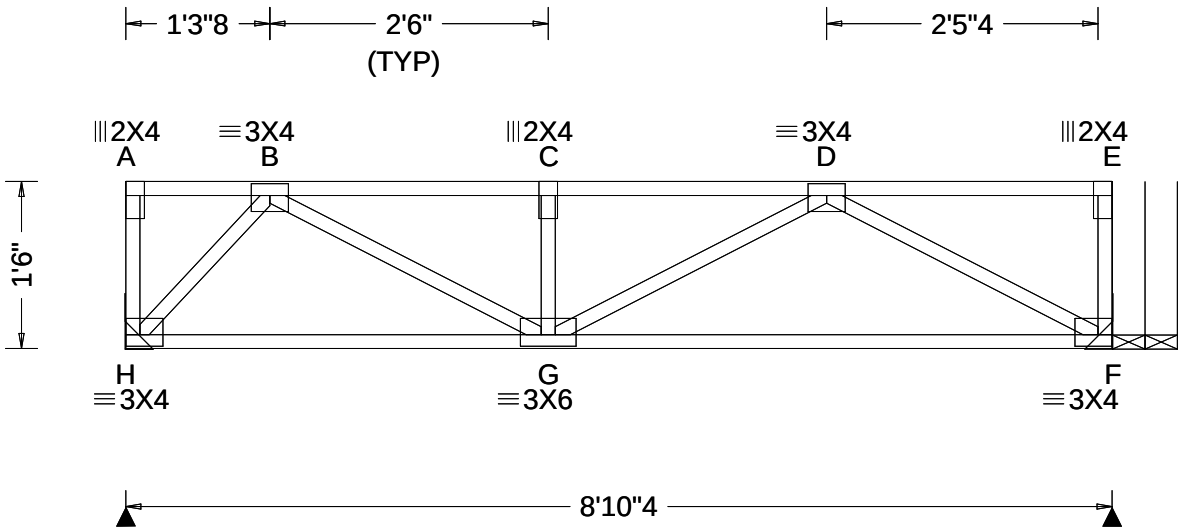
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97523 / SY42 FROM:	Ply: 1 Qty: 13	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F03	Cust: R 9316 JRef:1XfH93160008 T7 / DrwNo: 132.22.2232.45338 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.024	C	999	480
VERT(CL): 0.046	C	999	360
HORZ(LL): 0.004	B	-	-
HORZ(TL): 0.008	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.298
Max BC CSI: 0.324
Max Web CSI: 0.141

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	443	/-	/-	/-	/-	/-
F	443	/-	/-	/-	/-	/-

H Brg Wid = - Min Req = -
F Brg Wid = - Min Req = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-747	C - D	0	-747

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	606	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - B	0	-546	D - F	0	-687
B - G	426	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

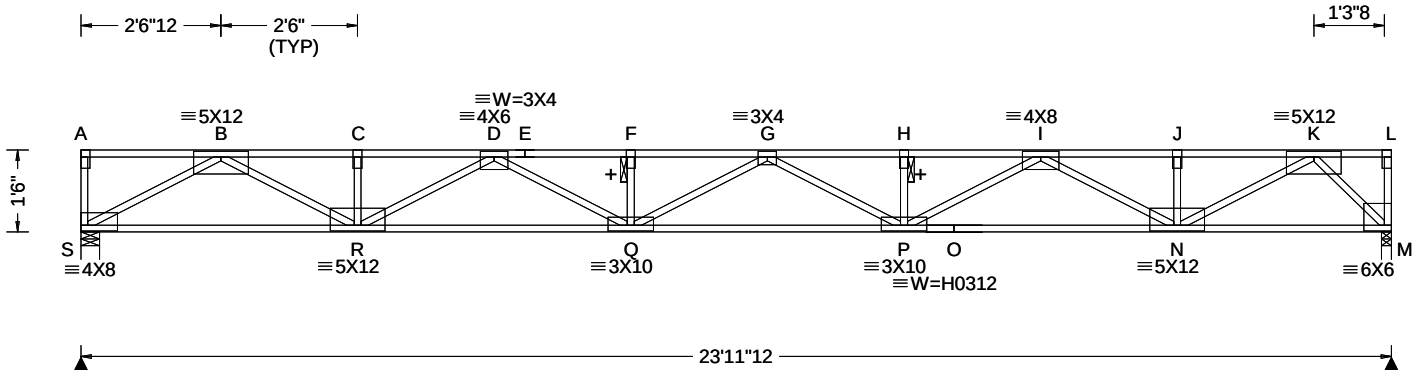
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97525 / SY42 FROM:	Ply: 1 Qty: 96	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F11	Cust: R 9316 JRef:1XfH93160008 T28 / DrwNo: 132.22.2232.45668 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.414	G	695	480
VERT(CL): 0.775	G	371	360
HORZ(LL): 0.057	M	-	-
HORZ(TL): 0.107	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.398
Max BC CSI: 0.672
Max Web CSI: 0.551

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
S	1199	/-	/-	/-	/-	/-
M	1199	/-	/-	/-	/-	/-

S Brg Wid = 4.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3522	G - H	0	-4917
C - D	0	-3522	H - I	0	-4917
D - E	0	-5123	I - J	0	-2895
E - F	0	-5123	J - K	0	-2895
F - G	0	-5123			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	2010	0	P - O	4106	0
R - Q	4523	0	O - N	4106	0
Q - P	5219	0	N - M	1183	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2281	P - I	925	0
B - R	1725	0	I - N	0	-1382
R - D	0	-1143	N - K	1954	0
D - Q	684	0	K - M	0	-1648

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

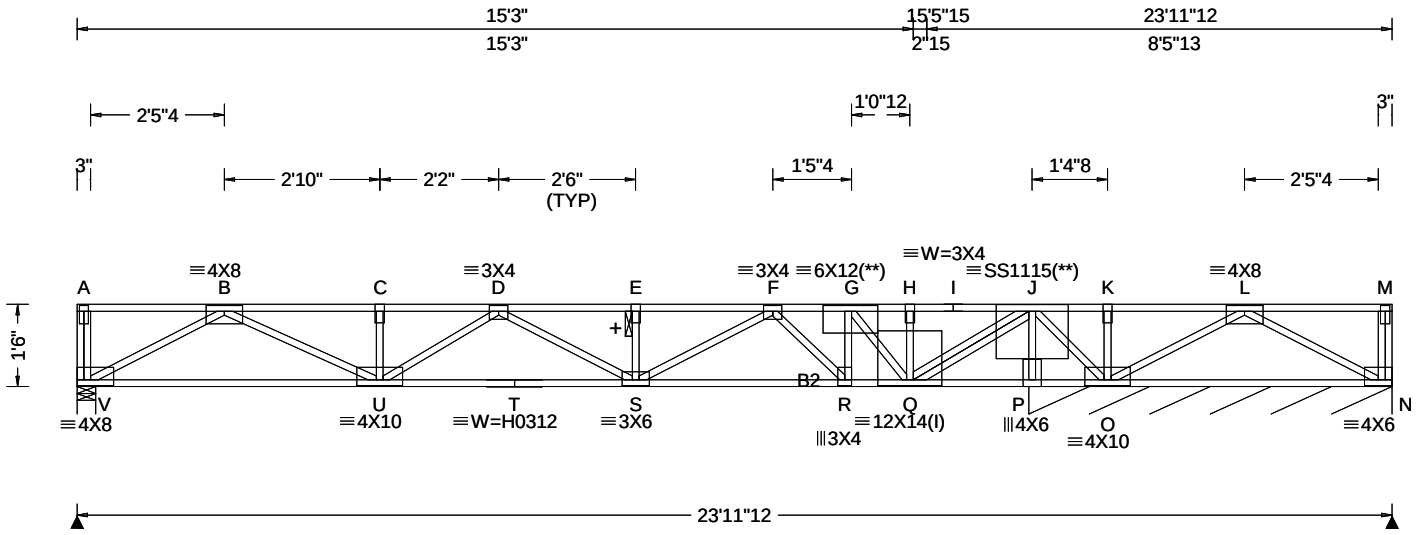
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97529 / SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F12	Cust: R 9316 JRef:1XfH93160008 T1 / DrwNo: 132.22.2232.45472 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.201 E	999	480
VERT(CL):	0.377 E	545	360
HORZ(LL):	0.029 B	-	-
HORZ(TL):	0.054 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.946
Max BC CSI: 0.960
Max Web CSI: 0.568

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	443	/-	/-	/-	/-	/-
N		/-304				

V Brg Wid = 4.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2615	G - H	0	-818
C - D	0	-2615	H - I	0	-818
D - E	0	-3202	I - J	0	-818
E - F	0	-3202	J - K	2031	0
F - G	0	-2426	K - L	2031	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1461	0	R - Q	2382	0
U - T	3059	0	Q - P	0	-2607
T - S	3059	0	P - O	0	-2607
S - R	2851	0	O - N	0	-784

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1680	G - Q	0	-2558
B - U	1283	0	Q - J	4025	0
U - D	0	-526	J - P	0	-2889
S - F	401	0	J - O	816	0
F - R	0	-615	O - L	0	-1423
R - G	488	0	L - N	897	0

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.98
BC: From 13 plf at 0.00 to 13 plf at 23.98
TC: 1500 lb Conc. Load at 14.06

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

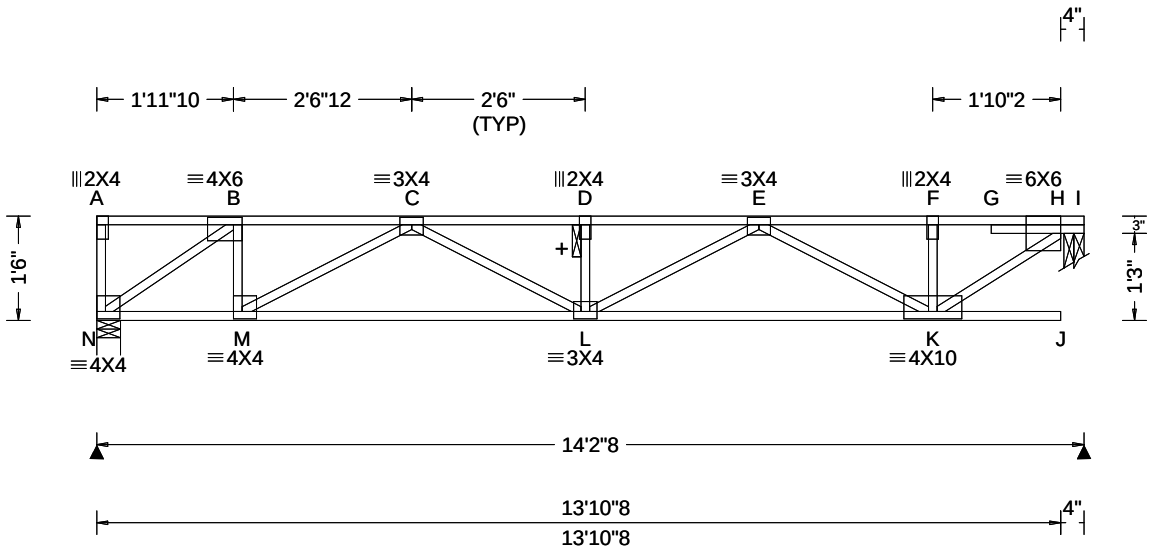
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97531 / SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F13	Cust: R 9316 JRef:1XfH93160008 T23 / DrwNo: 132.22.2232.45371 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.096	D	999	480
VERT(CL): 0.179	D	942	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.030	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.620
Max BC CSI: 0.537
Max Web CSI: 0.329

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	702	/-	/-		/-	/-	/-
H	714	/-	/-		/-	/-	/-

N Brg Wid = 4.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-943	E - F	0	-943
C - D	0	-1836	F - H	0	-942
D - E	0	-1836			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	905	0	L - K	1574	0
M - L	1582	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1104	E - K	0	-721
B - M	416	0	K - H	1166	0
M - C	0	-734			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

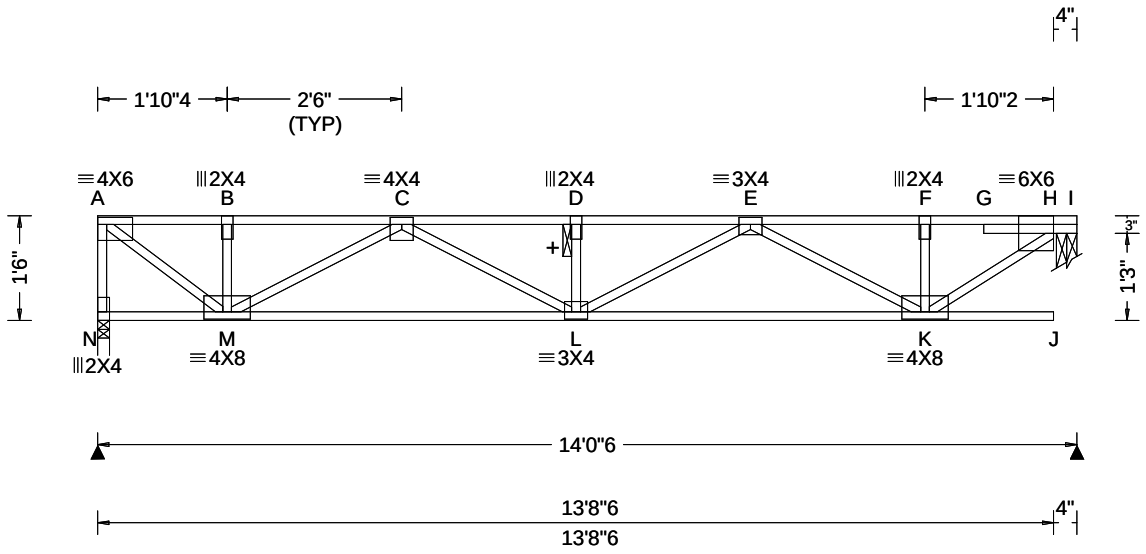
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97533 / SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F14	Cust: R 9316 JRef:1XfH93160008 T15 / DrwNo: 132.22.2232.45029 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.093	D	999	480
VERT(CL): 0.174	D	955	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.612
Max BC CSI: 0.524
Max Web CSI: 0.324

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	693	/-	/-		/-	/-	/-
H	706	/-	/-		/-	/-	/-

N Brg Wid = 2.0 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-849	D - E	0	-1791
B - C	0	-849	E - F	0	-929
C - D	0	-1791	F - H	0	-929

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1520	0	L - K	1546	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-690	E - K	0	-703
A - M	1057	0	K - H	1150	0
M - C	0	-766			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

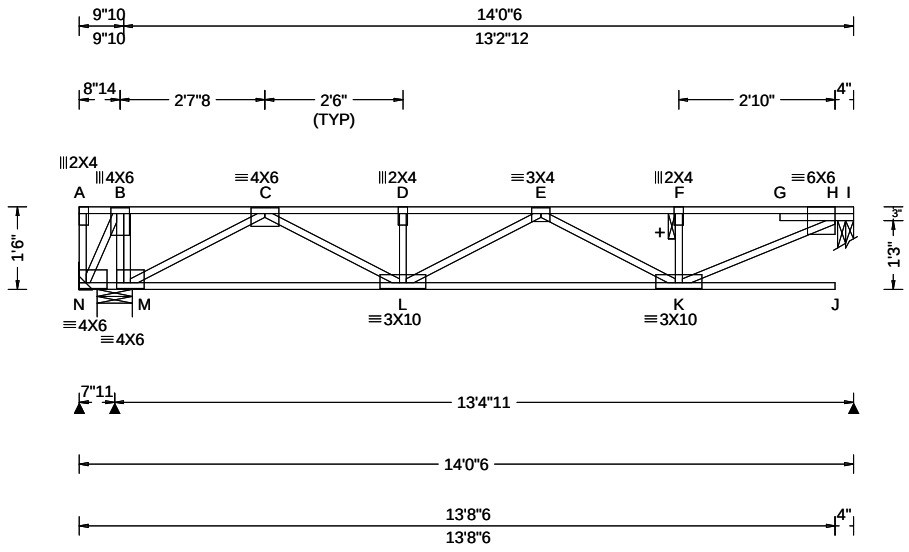
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97535 / SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F15	Cust: R 9316 JRef:1XfH93160008 T26 / DrwNo: 132.22.2232.45300 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.200	J	780	480
VERT(CL): 0.320	J	487	360
HORZ(LL): 0.011	C	-	-
HORZ(TL): 0.020	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.961
Max BC CSI: 0.588
Max Web CSI: 0.339

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-708	/-	/-	/-	/-
N	1480	/-	/-	/-	/-	/-
H	618	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
N Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	400	0	E - F	0	-1087
C - D	0	-1207	F - H	0	-1088
D - E	0	-1207			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	600	0	L - K	1318	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	685	0	C - L	693	0
B - M	0	-840	K - H	1201	0
M - C	0	-1141			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -708# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

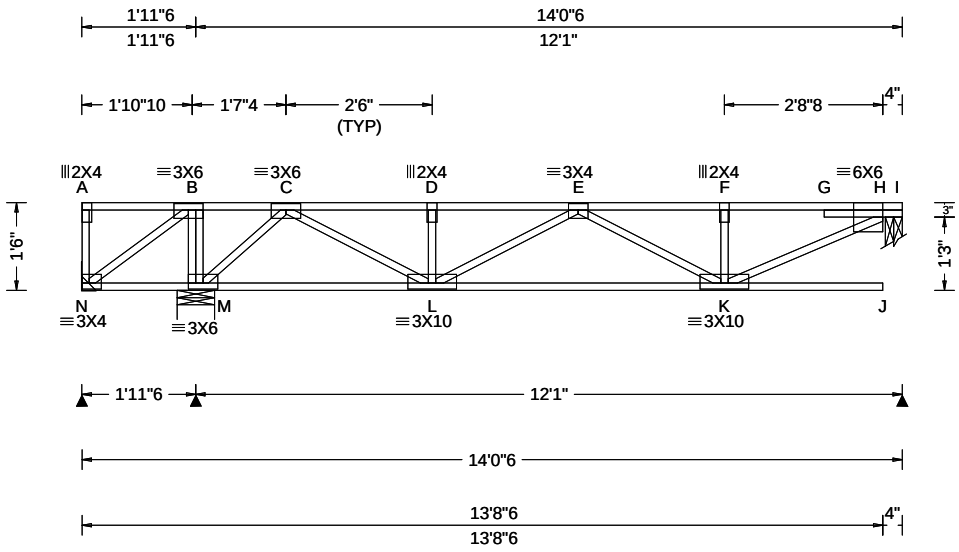
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97537 / SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F16	Cust: R 9316 JRef:1XfH93160008 T33 / DrwNo: 132.22.2232.45629 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.159	J	897	480
VERT(CL): 0.249	J	570	360
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.283

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-323	/-	/-	/-	/-
M	1131	/-	/-	/-	/-	/-
I	547	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	511	0	E - F	0	-901
C - D	0	-818	F - H	0	-903
D - E	0	-818			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-469	L - K	1034	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	580	0	C - L	816	0
B - M	0	-512	K - H	1004	0
M - C	0	-842			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

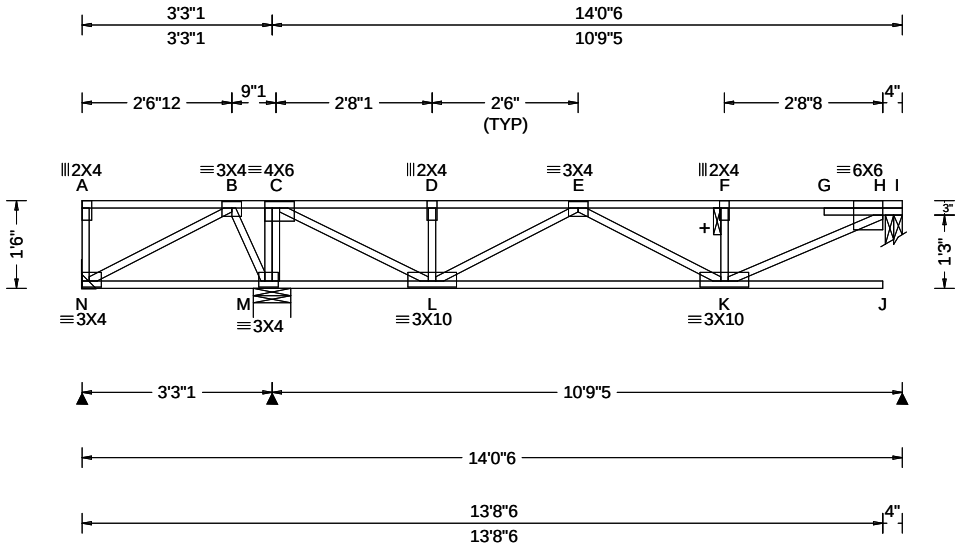
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97539 / SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F17	Cust: R 9316 JRef:1XfH93160008 T20 / DrwNo: 132.22.2232.45762 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	870	480
VERT(CL): 0.233	J	550	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.749
Max BC CSI: 0.437
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	57	/-122	/-	/-	/-	/-
M	959	/-	/-	/-	/-	/-
I	491	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	423	0	E - F	0	- 784
C - D	0	- 500	F - H	0	- 785
D - E	0	- 500			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	818	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	- 627	K - H	874	0
C - L	963	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

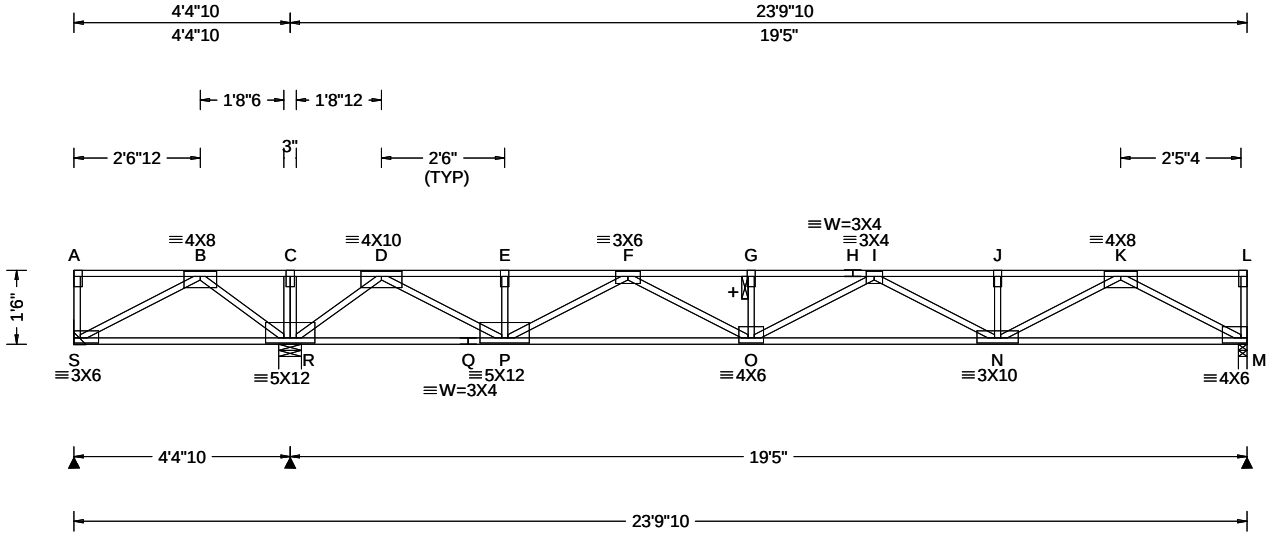
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97541 / SY42 FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18	Cust: R 9316 JRef:1XfH93160008 T16 / DrwNo: 132.22.2232.43926 / NDW 05/12/2022



Loading Criteria (psf)

TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria

Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	G	999	480
VERT(CL): 0.371	G	628	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.796
Max Web CSI: 0.466

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	-	/-458	/-	/-	/-	/-
R	1886	/-	/-	/-	/-	/-
M	844	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1750	0	G - H	0	- 2537
C - D	1750	0	H - I	0	- 2537
D - E	0	- 1040	I - J	0	- 2220
E - F	0	- 1040	J - K	0	- 2220
F - G	0	- 2537			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	- 955	P - O	1987	0
R - Q	0	- 427	O - N	2580	0
Q - P	0	- 427	N - M	1352	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1084	0	F - O	631	0
B - R	0	- 1117	I - N	0	- 411
R - D	0	- 1648	N - K	991	0
D - P	1653	0	K - M	0	- 1535
P - F	0	- 1085			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -458# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

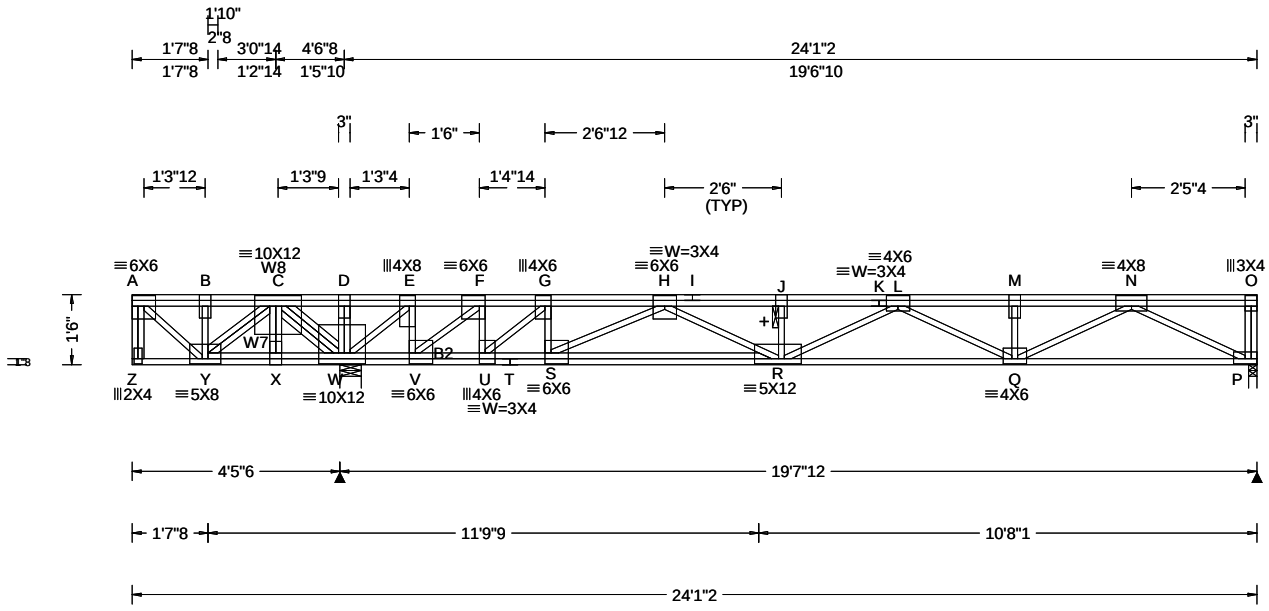
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97543 / SY42 FROM:	Ply: 2 Qty: 6	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18G	Cust: R 9316 JRef:1XfH93160008 T17 / DrwNo: 132.22.2232.45641 / NDW 05/12/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.124	Z	435	480
VERT(CL): 0.263	Z	408	360
HORZ(LL): -0.027	A	-	-
HORZ(TL): 0.058	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.885
Max BC CSI: 0.247
Max Web CSI: 0.249

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	8317	/-	/-	/-	/-	/-
P	962	/-165	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	420	0	H - I	1554	-1705
B - C	420	0	I - J	1554	-1705
C - D	4753	0	J - K	1551	-1711
D - E	4749	0	K - L	1551	-1711
E - F	4209	-367	L - M	534	-1347
F - G	3615	-827	M - N	534	-1347
G - H	3087	-1193			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	-1228	T - S	1169	-3130
X - W	0	-1219	S - R	1563	-2265
W - V	329	-4254	R - Q	1631	-993
V - U	793	-3663	Q - P	784	-222
U - T	1169	-3130			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	-548	G - S	539	0
Y - C	1053	0	S - H	0	-1139
C - W	0	-4787	H - R	869	0
W - E	0	-999	R - L	89	-626
E - V	636	0	L - Q	518	-321
V - F	0	-1035	Q - N	636	-353
F - U	652	0	N - P	250	-860
U - G	0	-919			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7,W8 4x2 DF-L 2400f-2.0E;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes

All plates are 3X6 except as noted.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

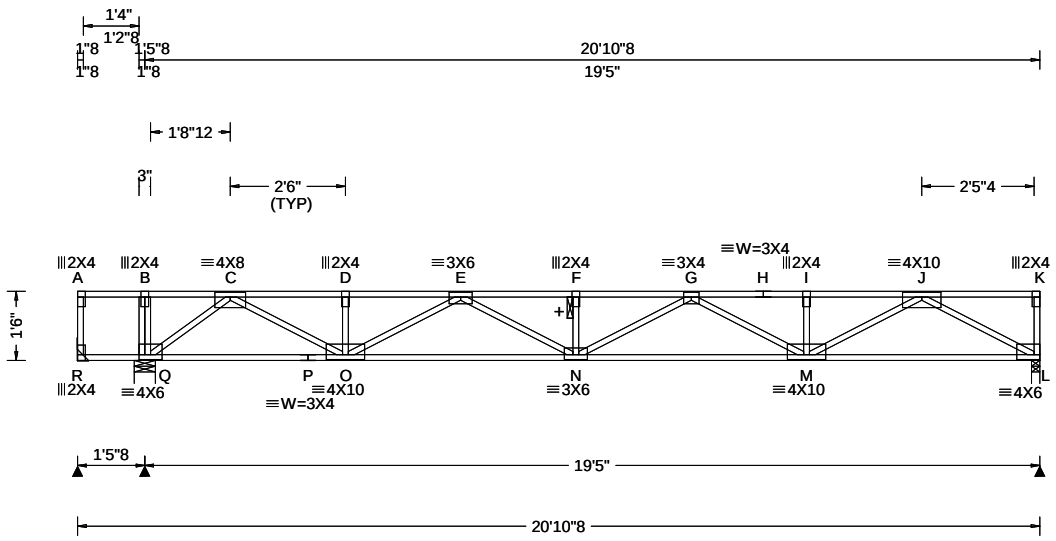
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 9746 / SY42 FROM:	Ply: 1 Qty: 78	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19	Cust: R 9316 JRef:1XfH93160008 T34 / DrwNo: 132.22.2232.45880 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.246	F	943	480
VERT(CL): 0.462	F	502	360
HORZ(LL): 0.038	L	-	-
HORZ(TL): 0.072	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.485
Max BC CSI: 0.960
Max Web CSI: 0.397

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	27	/-42	/-	/-	/-	/-
Q	1134	/-	/-	/-	/-	/-
L	962	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	- 2320	G - H	0	- 2651
D - E	0	- 2320	H - I	0	- 2651
E - F	0	- 3393	I - J	0	- 2651
F - G	0	- 3393			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1089	0	N - M	3224	0
P - O	1089	0	M - L	1570	0
O - N	3055	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - C	0	- 1383	G - M	0	- 654
C - O	1407	0	M - J	1233	0
O - E	0	- 839	J - L	0	- 1782
E - N	387	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

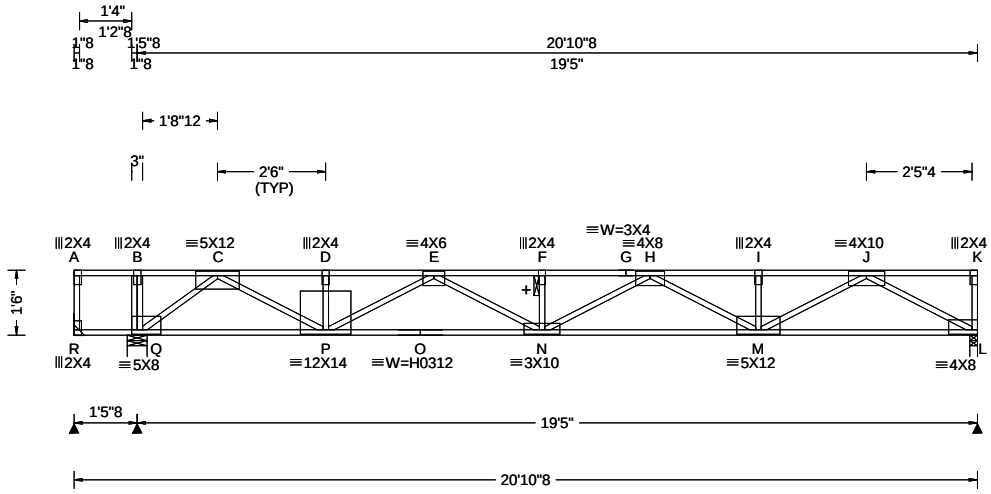
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 9748 / SY42 FROM:	Ply: 2 Qty: 13	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19G	Cust: R 9316 JRef:1XfH93160008 T8 / DrwNo: 132.22.2232.45941 / NDW 05/12/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.290	F	799	480
VERT(CL): 0.545	F	426	360
HORZ(LL): 0.041	C	-	-
HORZ(TL): 0.076	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.583
Max BC CSI: 0.585
Max Web CSI: 0.629

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	24	/-58	/-	/-	/-	/-
Q	3942	/-	/-	/-	/-	/-
L	1997	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-3789	G - H	0	-5138
D - E	0	-3789	H - I	0	-3219
E - F	0	-5138	I - J	0	-3219
F - G	0	-5138			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1835	0	N - M	4478	0
P - O	4877	0	M - L	1748	0
O - N	4877	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - Q	0	-465	F - N	0	-473
Q - C	0	-2340	N - H	753	0
C - P	2229	0	H - M	0	-1437
D - P	0	-467	M - J	1679	0
P - E	0	-1242	J - L	0	-1984

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
Webs: 4x2 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 20.88
BC: From 13 plf at 0.00 to 13 plf at 20.88
TC: 443 lb Conc. Load at 0.94
TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27 7.60, 8.94,10.27,11.60,12.94

Deflection
Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

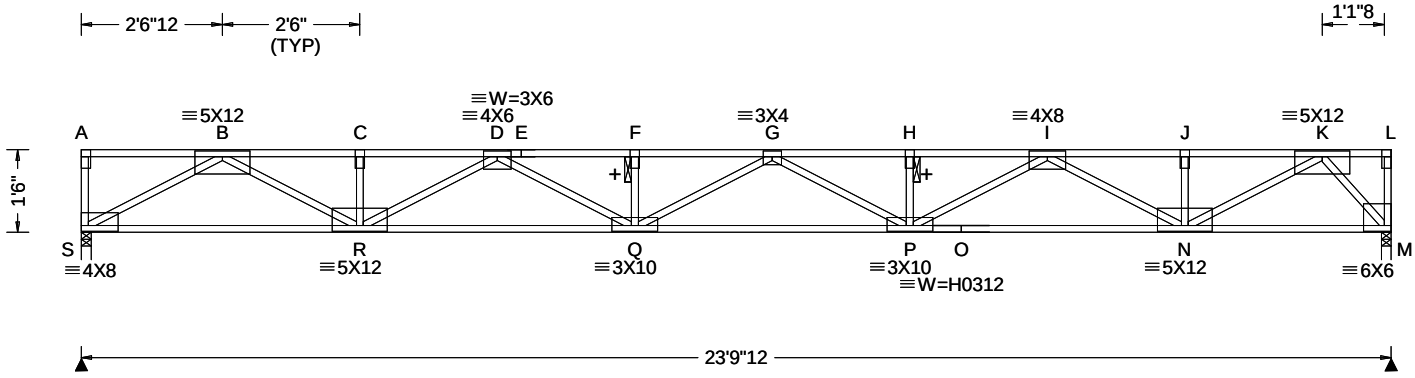
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97545 / SY42 FROM:	Ply: 1 Qty: 112	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F21	Cust: R 9316 JRef:1XfH93160008 T19 / DrwNo: 132.22.2232.43856 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.419	G	682	480
VERT(CL): 0.785	G	364	360
HORZ(LL): 0.056	M	-	-
HORZ(TL): 0.104	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.442
Max BC CSI: 0.664
Max Web CSI: 0.556

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	1191	/-	/-	/-	/-	/-
M	1191	/-	/-	/-	/-	/-

S Brg Wid = 2.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3491	G - H	0	-4826
C - D	0	-3491	H - I	0	-4826
D - E	0	-5062	I - J	0	-2773
E - F	0	-5062	J - K	0	-2773
F - G	0	-5062			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	1995	0	P - O	4000	0
R - Q	4479	0	O - N	4000	0
Q - P	5145	0	N - M	1047	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2264	P - I	942	0
B - R	1707	0	I - N	0	-1401
R - D	0	-1127	N - K	1969	0
D - Q	665	0	K - M	0	-1557

Lumber
Top chord: 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

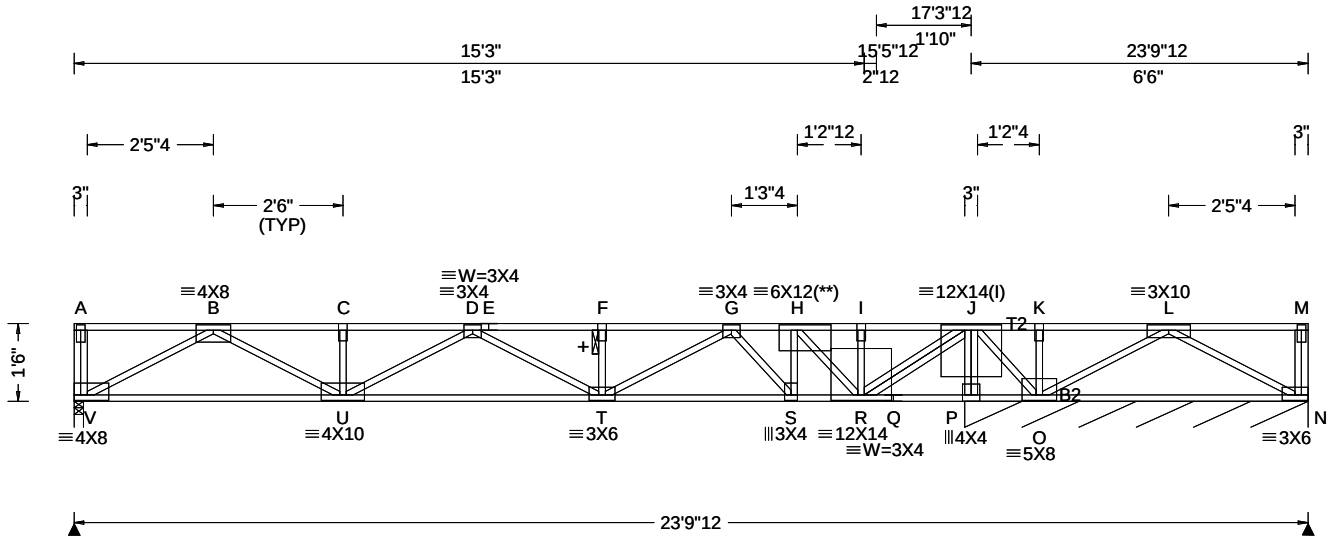
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97547 / SY42 FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F22	Cust: R 9316 JRef:1XfH93160008 T2 / DrwNo: 132.22.2232.45742 / NDW 05/12/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.179 F 999 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.335 F 613 360
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.026 B - -
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.049 B - -
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.504
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.472
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: No	Max Web CSI: 0.548
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	
	I: NA GCpi: NA	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: NA		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	441	/-	/-	/-	/-	/-
N		/-246				

V Brg Wid = 2.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	- 2565	G - H	0	- 2521
C - D	0	- 2565	H - I	0	- 698
D - E	0	- 3256	I - J	0	- 698
E - F	0	- 3256	J - K	1825	0
F - G	0	- 3256	K - L	1825	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1507	0	R - Q	0	- 2561
U - T	3113	0	Q - P	0	- 2561
T - S	2904	0	P - O	0	- 2561
S - R	2477	0	O - N	0	- 681

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	- 1714	H - R	0	- 2670
B - U	1208	0	R - J	3882	0
U - D	0	- 625	J - P	0	- 3088
T - G	402	0	J - O	1065	0
G - S	0	- 598	O - L	0	- 1307
S - H	486	0	L - N	779	0

Lumber

Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)

TC: From	87 plf at	0.00 to	87 plf at	23.81
BC: From	13 plf at	0.00 to	13 plf at	23.81

TC: 1500 lb Conc. Load at 13.90

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

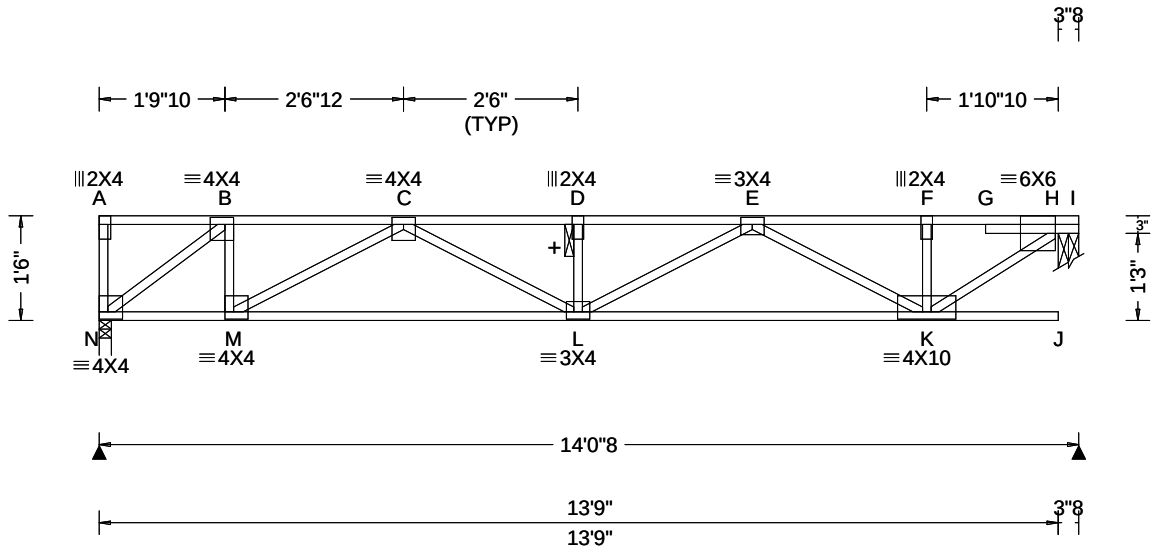
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97549 / SY42 FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F23	Cust: R 9316 JRef:1XfH93160008 T25 / DrwNo: 132.22.2232.45249 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.092	D	999	480
VERT(CL): 0.172	D	970	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.029	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.613
Max BC CSI: 0.522
Max Web CSI: 0.325

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	694	/-	/-	/-	/-	/-
H	707	/-	/-	/-	/-	/-

N Brg Wid = 2.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-869	E - F	0	-931
C - D	0	-1793	F - H	0	-930
D - E	0	-1793			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	831	0	L - K	1548	0
M - L	1525	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1045	E - K	0	-704
B - M	425	0	K - H	1152	0
M - C	0	-752			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

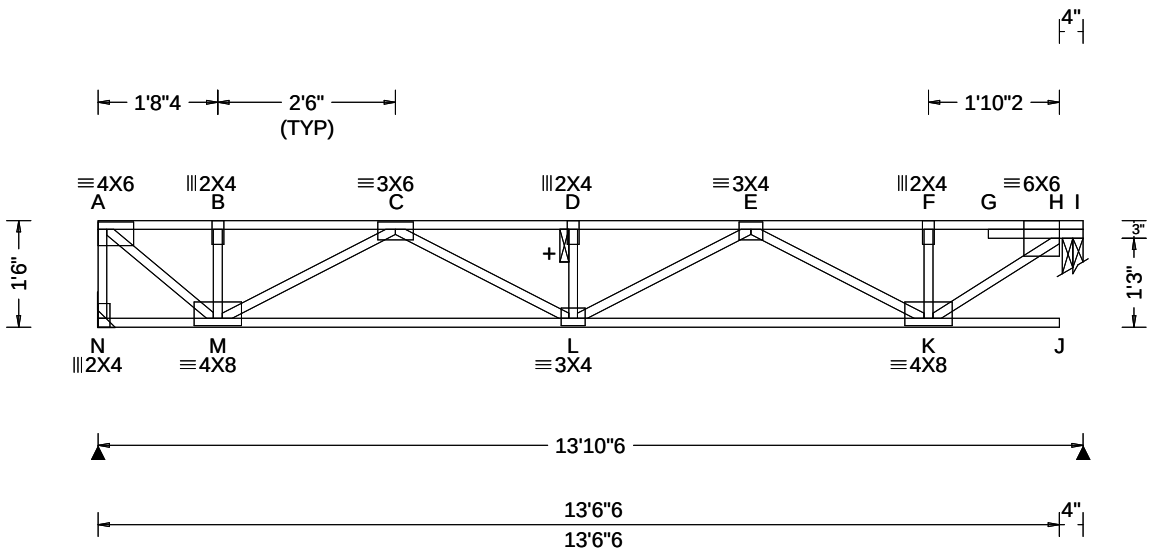
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97551 / SY42 FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F24	Cust: R 9316 JRef:1XfH93160008 T3 / DrwNo: 132.22.2232.43925 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.090	D	999	480
VERT(CL): 0.167	D	982	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.604
Max BC CSI: 0.513
Max Web CSI: 0.320

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	685	/-	/-	/-	/-	/-
H	697	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-776	D - E	0	-1749
B - C	0	-776	E - F	0	-917
C - D	0	-1749	F - H	0	-916

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1463	0	L - K	1518	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-684	E - K	0	-687
A - M	1001	0	K - H	1134	0
M - C	0	-784			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

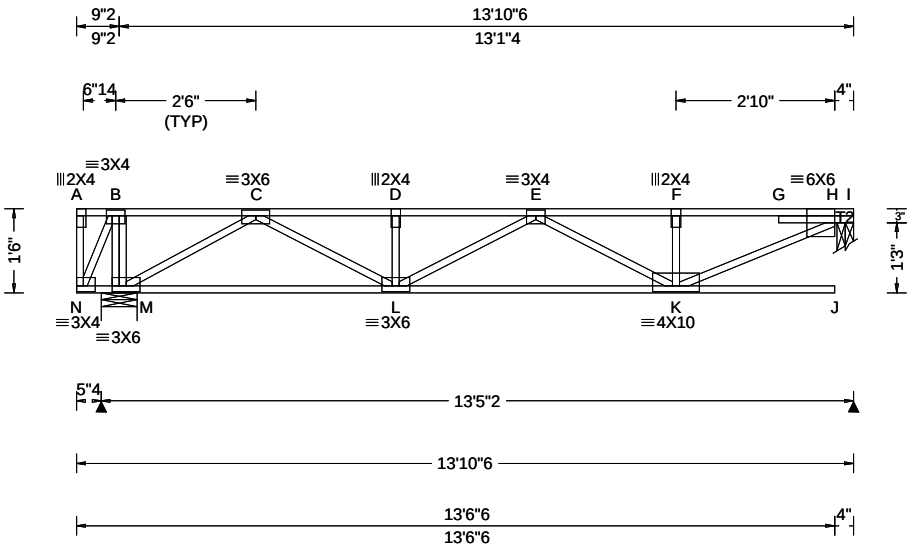
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97553 / SY42 FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F25	Cust: R 9316 JRef:1XfH93160008 T11 / DrwNo: 132.22.2232.45509 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	J	784	480
VERT(CL): 0.316	J	488	360
HORZ(LL): 0.013	A	-	-
HORZ(TL): 0.024	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.609
Max BC CSI: 0.630
Max Web CSI: 0.367

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
M	729	/-	/-	/-	/-	/-
H	659	/-	/-	/-	/-	/-

M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-1447	E - F	0	-1177
D - E	0	-1447	F - H	0	-1178

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	912	0	L - K	1482	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	-1015	K - H	1301	0
C - L	614	0			

Lumber

Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

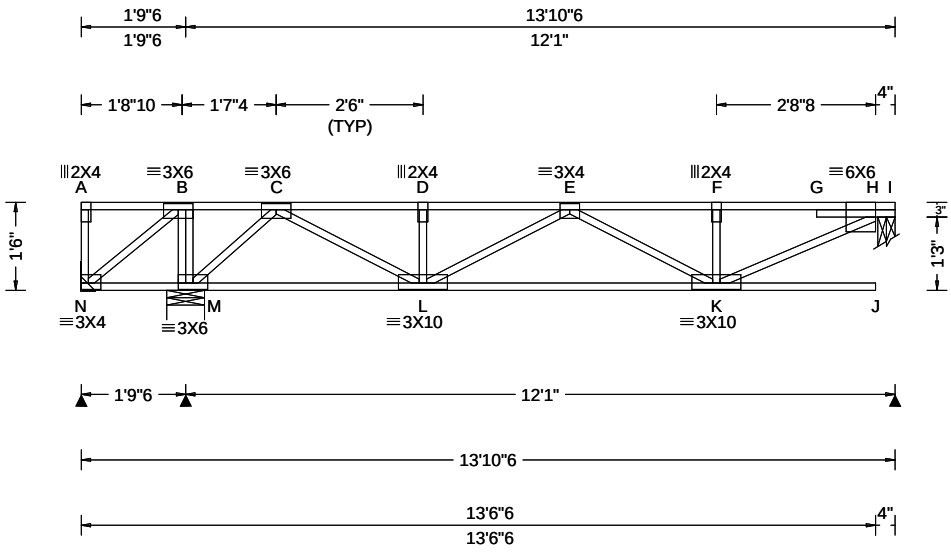
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97555 / SY42 FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F26	Cust: R 9316 JRef:1XfH93160008 T5 / DrwNo: 132.22.2232.44353 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.158	J	897	480
VERT(CL): 0.249	J	570	360
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.284

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-358	/-	/-	/-	/-
M	1154	/-	/-	/-	/-	/-
H	547	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	510	0	E - F	0	-902
C - D	0	-819	F - H	0	-903
D - E	0	-819			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-465	L - K	1035	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	596	0	C - L	815	0
B - M	0	-533	K - H	1005	0
M - C	0	-843			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

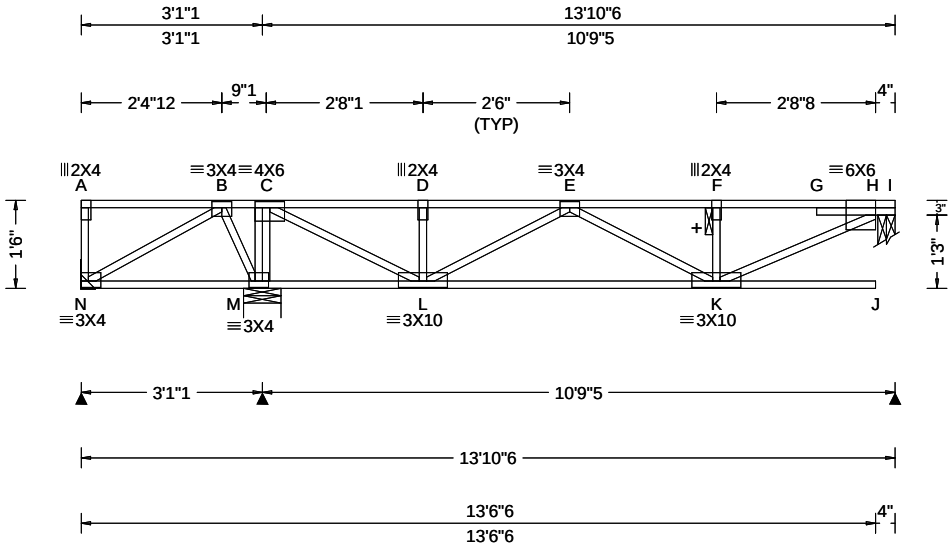
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97557 / SY42 FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F27	Cust: R 9316 JRef:1XfH93160008 T9 / DrwNo: 132.22.2232.43924 / NDW 05/12/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	869	480
VERT(CL): 0.233	J	549	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.748
Max BC CSI: 0.436
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
N	44 /-139	/-	/-	/-	/-	
M	963 /-	/-	/-	/-	/-	
H	491 /-	/-	/-	/-	/-	

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	427	0	E - F	0	- 782
C - D	0	- 495	F - H	0	- 784
D - E	0	- 495			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	815	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	- 633	K - H	872	0
C - L	964	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

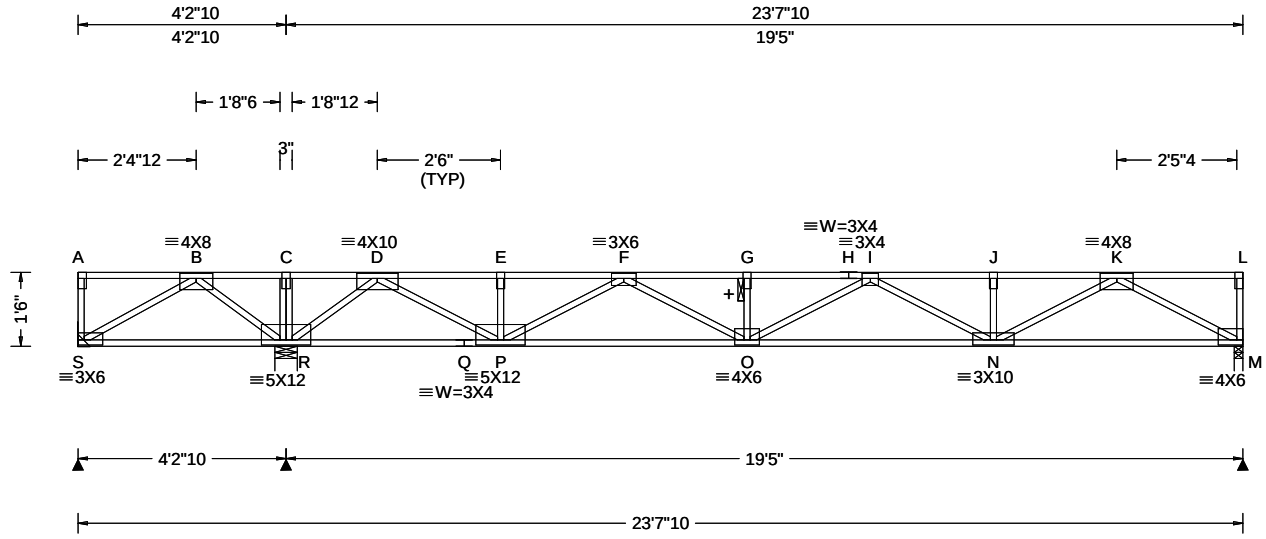
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97559 / SY42 FROM:	Ply: 1 Qty: 14	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F28	Cust: R 9316 JRef:1XfH93160008 T10 / DrwNo: 132.22.2232.44117 / NDW 05/12/2022



Loading Criteria (psf)

TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria

Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.196	G	999	480
VERT(CL): 0.369	G	630	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.795
Max Web CSI: 0.467

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	-	/-490	/-	/-	/-	/-
R	1906	/-	/-	/-	/-	/-
M	843	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1763	0	G - H	0	- 2527
C - D	1763	0	H - I	0	- 2527
D - E	0	- 1026	I - J	0	- 2216
E - F	0	- 1026	J - K	0	- 2216
F - G	0	- 2527			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	- 944	P - O	1976	0
R - Q	0	- 440	O - N	2573	0
Q - P	0	- 440	N - M	1350	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1088	0	F - O	633	0
B - R	0	- 1142	I - N	0	- 408
R - D	0	- 1649	N - K	988	0
D - P	1656	0	K - M	0	- 1532
P - F	0	- 1087			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -490# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

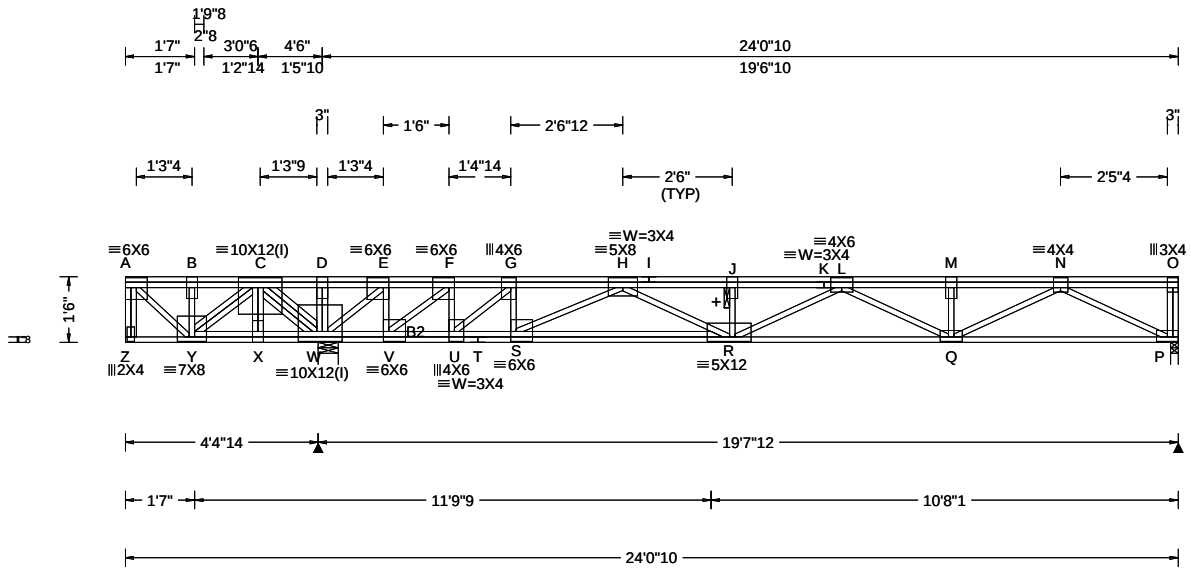
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97561 / SY42 FROM:	Ply: 2 Qty: 7	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F28G	Cust: R 9316 JRef:1XfH93160008 T12 / DrwNo: 132.22.2232.43904 / NDW 05/12/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.120	A	443	480
VERT(CL): 0.268	Z	396	360
HORZ(LL): -0.025	A	-	-
HORZ(TL): 0.057	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.433
Max BC CSI: 0.260
Max Web CSI: 0.271

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	8750	/-	/-	/-	/-	/-
P	618	/-243	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	597	0	H - I	1855	- 383
B - C	597	0	I - J	1855	- 383
C - D	5342	0	J - K	1853	- 389
D - E	5337	0	K - L	1853	- 389
E - F	4767	0	L - M	685	- 689
F - G	4126	0	M - N	685	- 689
G - H	3551	0			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	- 1645	T - S	0	- 3597
X - W	0	- 1635	S - R	0	- 2646
W - V	0	- 4815	R - Q	647	- 1215
V - U	0	- 4178	Q - P	456	- 296
U - T	0	- 3597			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	- 789	G - S	577	0
Y - C	1366	0	S - H	0	- 1230
C - W	0	- 5021	H - R	961	0
W - E	0	- 1030	R - L	0	- 716
E - V	677	0	L - Q	599	0
V - F	0	- 1093	Q - N	264	- 439
F - U	694	0	N - P	330	- 495
U - G	0	- 980			

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.05
BC: From 13 plf at 0.00 to 13 plf at 24.05
TC: 1129 lb Conc. Load at 0.12
TC: 5500 lb Conc. Load at 3.03

Plating Notes

All plates are 3X6 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

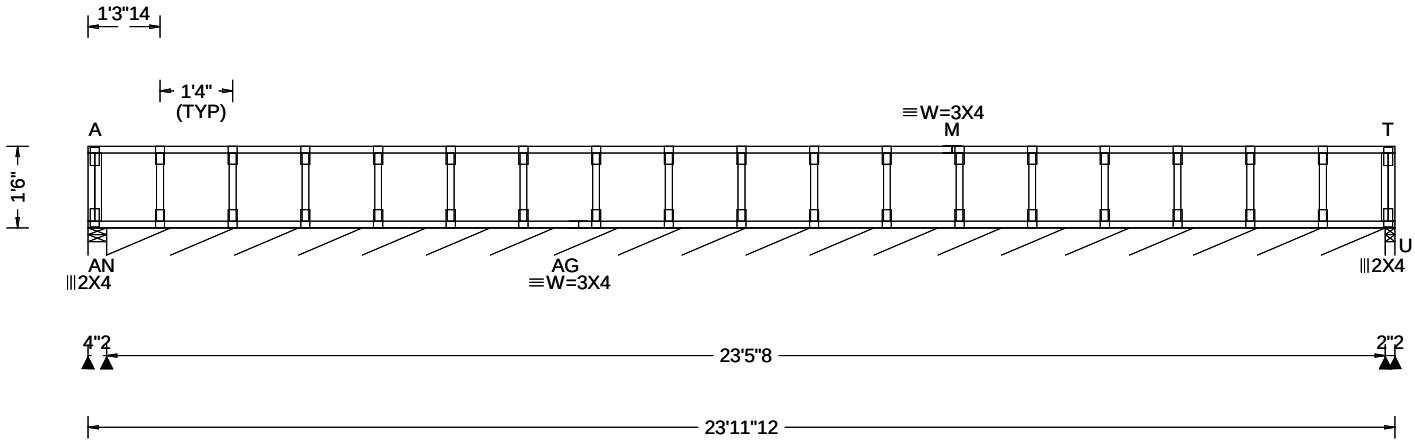
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97563 / SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L11	Cust: R 9316 JRef:1XfH93160008 T29 / DrwNo: 132.22.2232.45407 / NDW 05/12/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 T 999 480 VERT(CL): 0.001 T 999 360 HORZ(LL): -0.003 B - - HORZ(TL): 0.005 B - - Creep Factor: 2.0 Max TC CSI: 0.060 Max BC CSI: 0.013 Max Web CSI: 0.018 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AN	68 / -	/ -	/ -	/ -	/ -
AN*	97 / -	/ -	/ -	/ -	/ -
U	64 / -	/ -	/ -	/ -	/ -

AN Brg Wid = 4.1 Min Req = 1.5 (Truss)
AN Brg Wid = 281 Min Req = -
U Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AN, AN, & U are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

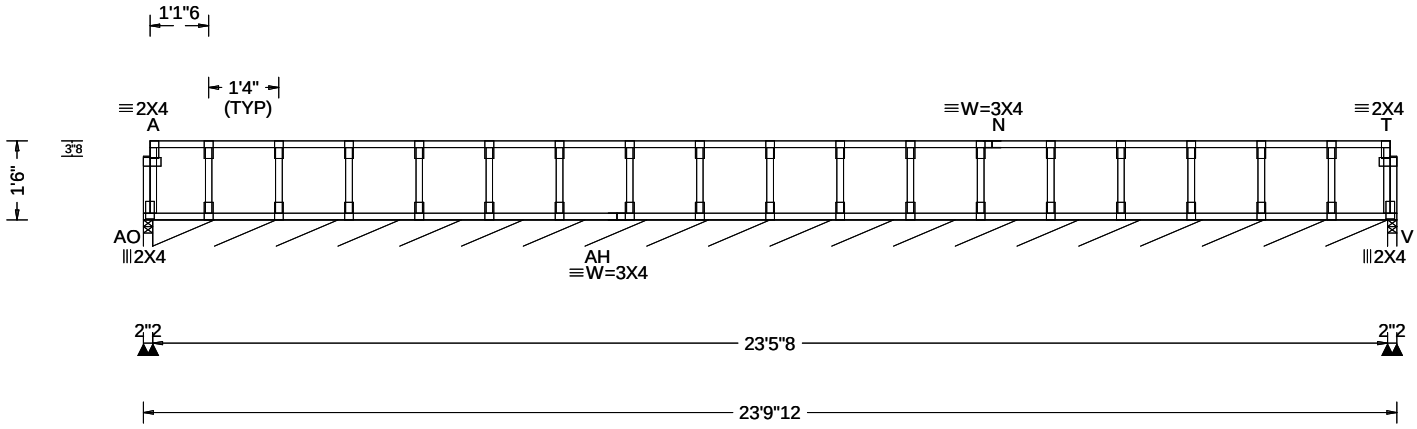
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97565 / SY42 FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L21	Cust: R 9316 JRef:1XfH93160008 T30 / DrwNo: 132.22.2232.45633 / NDW 05/12/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	T	999	480
VERT(CL): 0.000	T	999	360
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.057
Max BC CSI: 0.009
Max Web CSI: 0.018

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AO	48	/-	/-	/-	/-	/-
AO	*97	/-	/-	/-	/-	/-
V	48	/-	/-	/-	/-	/-

AO Brg Wid = 2.1 Min Req = 1.5 (Truss)
AO Brg Wid = 281 Min Req = -
V Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AO, AO, & V are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.

05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

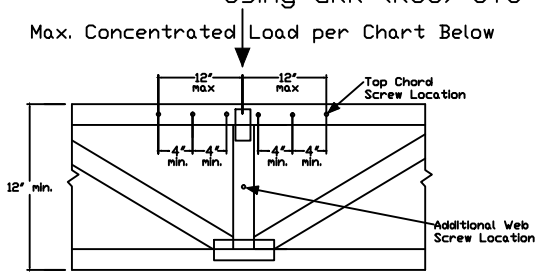
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

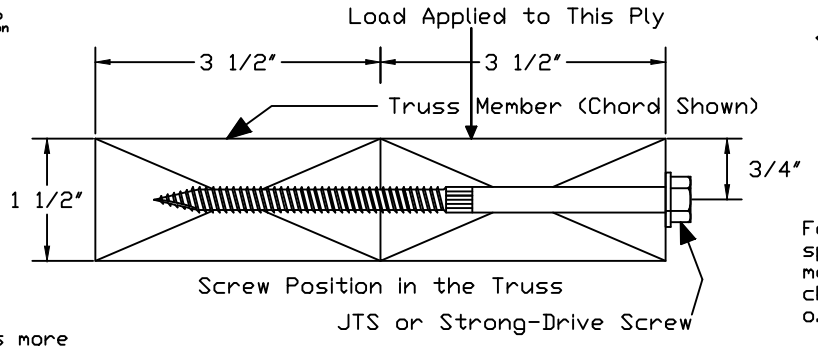
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

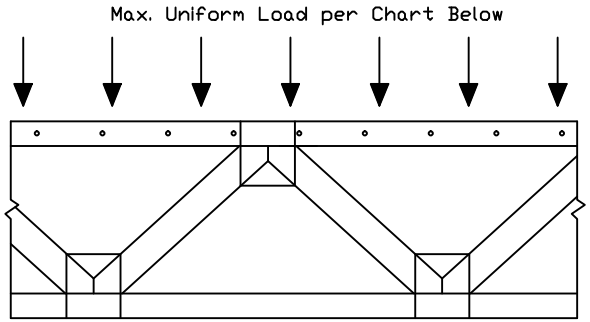
System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.



Refer to Alpine sealed drawing for individual truss design.





Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200

ALPINE® ITW COMPANY

Texas Registered Engineering Firm F-8037
Alpine, 1950 Stemmons Freeway, Suite 6001, Floor 1, Dallas, TX 75207
Phone: (214) 630-1963 Fax: (214) 630-1773
Expires: 12/31/2025

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL	PSF	REF SY42 Connection
TC DL	PSF	DATE 01/19/2018
BC DL	PSF	DRWG CNSY42PL0118
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.	1.00	
SPACING		

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

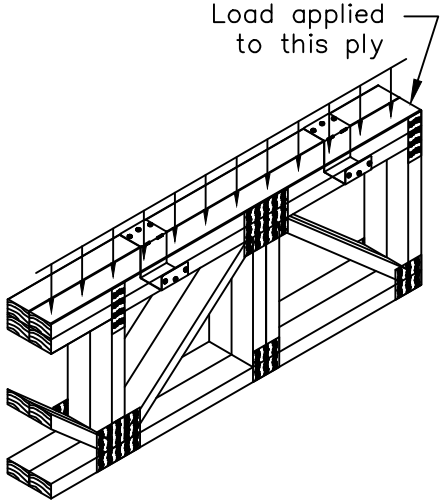
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL

FOR DOWNWARD LOADS ONLY

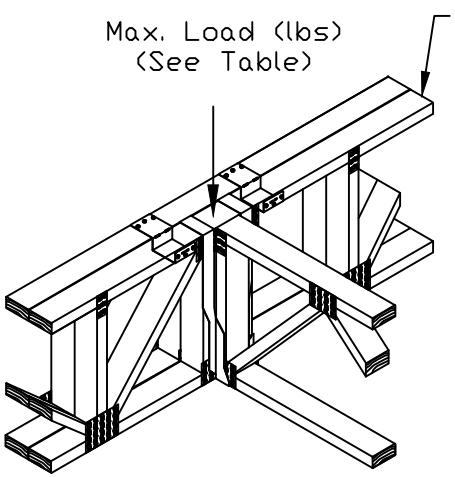
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application



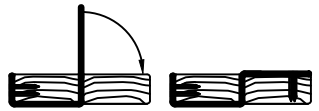
Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

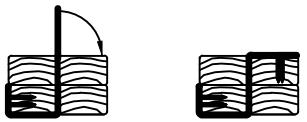
Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.

2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

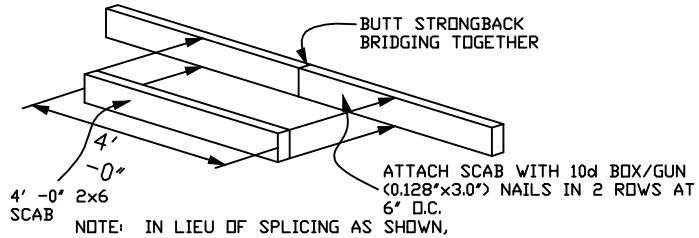
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

ALPINE® ITW COMPANY
Hadens
Floor
025

DUR. FAC. ALL

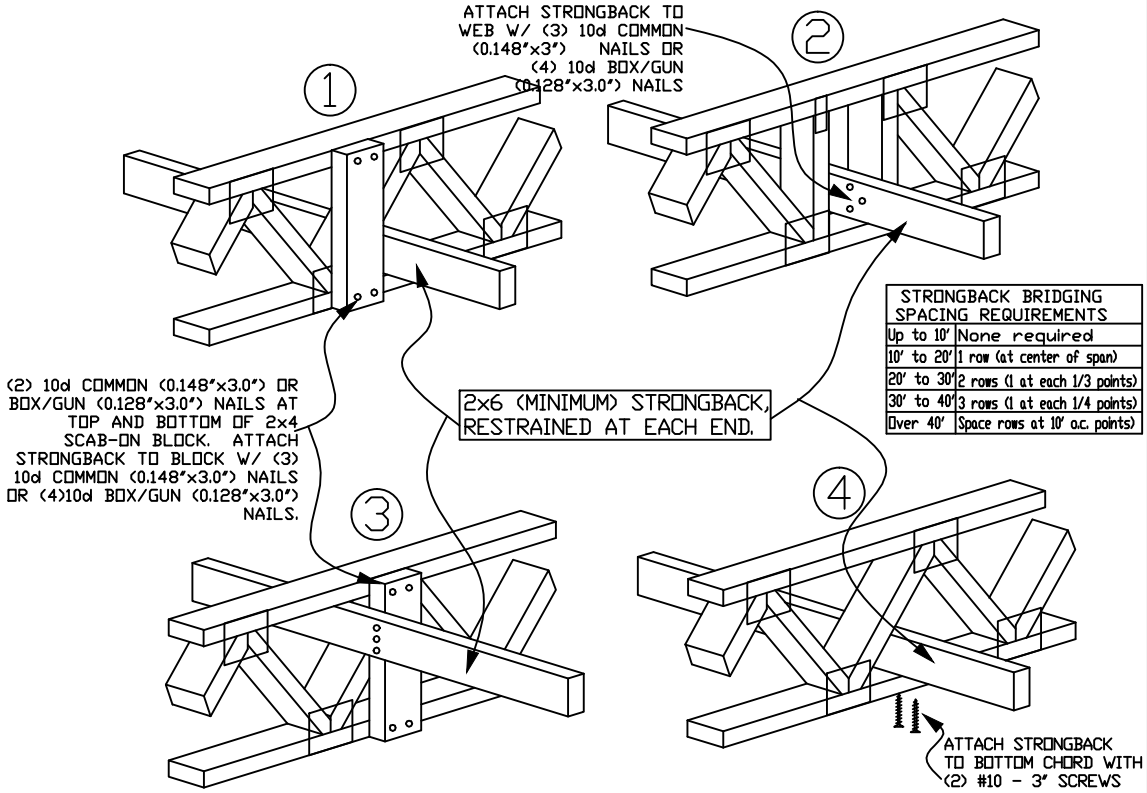
REF	SY42 Connection
DATE	10/01/14
DRWG	LSCSYX2A1014

STRONGBACK BRIDGING RECOMMENDATIONS



STRONGBACK BRIDGING SPLICE DETAIL

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING SPACING REQUIREMENTS	
Up to 10'	None required
10' to 20'	1 row (at center of span)
20' to 30'	2 rows (1 at each 1/3 points)
30' to 40'	3 rows (1 at each 1/4 points)
Over 40'	Space rows at 10' o.c. points)

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

- All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

ALPINE® ITW COMPANY

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL	PSF	REF STRONGBACK
TC DL	PSF	DATE 10/01/14
BC DL	PSF	DRWG STRBRIBR1014
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.	1.00	
SPACING		

Building 10

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/19/2022

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 6/6/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED. REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 *BY:* CB

Site Information:	**Page 1:**
Customer: Mill Creek Truss	*Job Number:* JB-220694
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1XfO93160002
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 109 *Building Type:* Closed	*Design Loading (psf):* 65.00

This package contains general notes pages, 83 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	139.22.0903.10776	J02	2	139.22.0903.18691	J02G
3	139.22.0903.11094	T01	4	139.22.0903.12913	T02
5	139.22.0903.13852	T03	6	139.22.0903.19081	T04
7	139.22.0903.09769	T05	8	139.22.0903.12330	T06
9	139.22.0903.16381	T07	10	139.22.0903.14246	T08
11	139.22.0903.15383	T10	12	139.22.0903.14182	T11
13	139.22.0903.12671	T12	14	139.22.0903.15726	T13
15	139.22.0903.18518	T14	16	139.22.0903.11893	T15
17	139.22.0943.48133	T17	18	139.22.0943.59403	T18
19	139.22.0903.17645	T19	20	139.22.0903.11895	T20
21	139.22.0903.10266	T21	22	139.22.0944.11557	T22
23	139.22.0903.15307	T23	24	139.22.0903.15491	T24
25	139.22.0903.18027	T25	26	139.22.0903.14249	T26
27	139.22.0903.15911	T27	28	139.22.0903.13178	T28
29	139.22.0903.10487	T29	30	139.22.0903.16939	T30
31	139.22.0903.17947	T31	32	139.22.0903.10402	T33
33	139.22.0903.09789	T34	34	139.22.0903.14883	T35
35	139.22.0903.13275	T36	36	139.22.0903.12771	T37
37	139.22.0903.10759	T38	38	139.22.0903.10865	T39
39	139.22.0903.14818	T40	40	139.22.0903.13832	T41
41	139.22.0903.10892	T42	42	139.22.0903.10622	T43
43	139.22.0903.15061	T44	44	139.22.0903.10155	T45
45	139.22.0903.09710	T46	46	139.22.0903.09876	T47
47	139.22.0903.13862	T48	48	139.22.0903.10885	T49
49	139.22.0903.10440	T50	50	139.22.0903.12777	T51

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/19/2022

Site Information:	Page 2:
Customer: Mill Creek Truss	*Job Number:* JB-220694
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	139.22.0903.10288	T52
53	139.22.0903.17303	TGE02
55	139.22.0903.18899	TGE04
57	139.22.0903.10479	TGE06
59	139.22.0903.19250	TGE08
61	139.22.0903.15651	TGE10
63	139.22.0903.10525	TGE12
65	139.22.0903.10758	TGE14
67	139.22.0903.09804	TGE16
69	139.22.0903.10978	TGE18
71	139.22.0903.09728	TGE20
73	139.22.0903.17050	TGE22
75	139.22.0903.14181	T32
77	139.22.0903.10243	J02A
79	139.22.0903.19716	T48A
81	139.22.0944.24893	T55
83	139.22.0903.19297	T53
85	BRCLBSUB0119	
87	GABRST160118	

Item	Drawing Number	Truss
52	139.22.0903.18039	TGE01
54	139.22.0903.18840	TGE03
56	139.22.0903.10698	TGE05
58	139.22.0903.09687	TGE07
60	139.22.0903.17397	TGE09
62	139.22.0903.12985	TGE11
64	139.22.0903.09852	TGE13
66	139.22.0903.13912	TGE15
68	139.22.0903.12144	TGE17
70	139.22.0903.10618	TGE19
72	139.22.0903.10921	TGE21
74	139.22.0903.15108	TGE23
76	139.22.0903.19917	T09
78	139.22.0943.38500	T16
80	139.22.0944.15207	T54
82	139.22.0903.19335	T09A
84	A11530ENC160118	
86	DEFLCAMB1014	
88	GBLLETIN0118	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

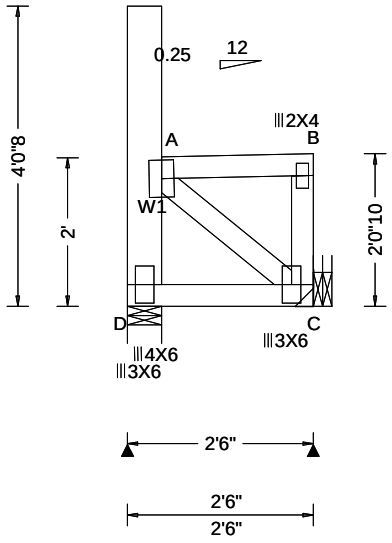
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 10

SEQN: 36700 / MONO FROM:	Ply: 1 Qty: 68	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02	Cust: R 9316 JRef:1XfO93160002 T193 DrwNo: 139.22.0903.10776 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 B	999	360
VERT(CL):	0.000 B	999	240
HORZ(LL):	0.001 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.103
Max BC CSI: 0.079
Max Web CSI: 0.131

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	147	/-	/-	/114	/79	/90
C	173	/-	/-	/157	/63	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
A - C	238	-387

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

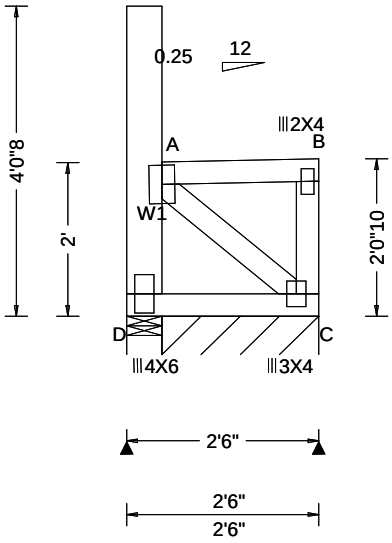
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36702 / MONO FROM:	Ply: 1 Qty: 26	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02G	Cust: R 9316 JRef:1XfO93160002 T133 DrwNo: 139.22.0903.18691 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.103
Max BC CSI: 0.079
Max Web CSI: 0.105

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	147	/-	/-	/122	/85	/98
C*	85	/-	/-	/78	/33	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = 24.5 Min Req = -
Bearings D & D are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

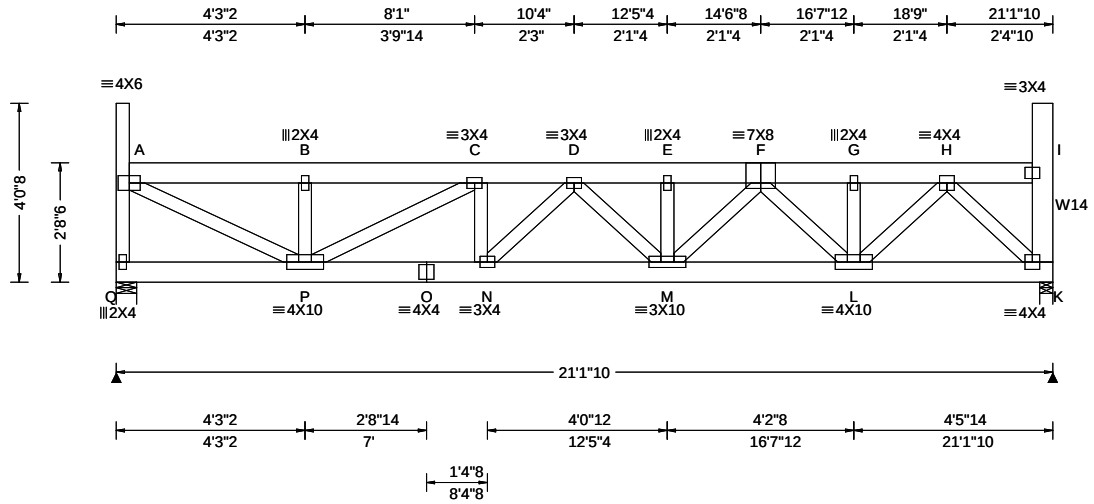
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36782 / FLAT FROM:	Ply: 3 Qty: 8	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T01	Cust: R 9316 JRef:1XfO93160002 T10 / DrwNo: 139.22.0903.11094 / NDW 05/19/2022

3 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.060 D	999	360
VERT(CL):	0.111 D	999	240
HORZ(LL):	0.014 K	-	-
HORZ(TL):	0.026 K	-	-

Creep Factor: 2.0
Max TC CSI: 0.054
Max BC CSI: 0.283
Max Web CSI: 0.291

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	1981	/-	/-	/-	/117	/-
K	2325	/-	/-	/-	/149	/-

Wind reactions based on MWFRS
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
K Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings Q & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	68	- 1106	E - F	154	- 2215
B - C	68	- 1102	F - G	93	- 1390
C - D	116	- 1792	G - H	93	- 1390
D - E	154	- 2215			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	1751	- 113	M - L	1836	- 126
O - N	1751	- 113	L - K	768	- 51
N - M	2024	- 136			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - A	38	- 620	F - L	48	- 652
A - P	1188	- 73	L - H	908	- 61
P - C	52	- 752	H - K	70	- 1041
M - F	554	- 41			

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 9.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	70 plf at	0.29 to	70 plf at	20.68	
BC: From	60 plf at	0.00 to	60 plf at	21.14	

BC: 1611 lb Conc. Load at 12.90

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.39	1.34	13.80	3.32
20.68	0.00	20.39	1.34	13.80	3.32

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

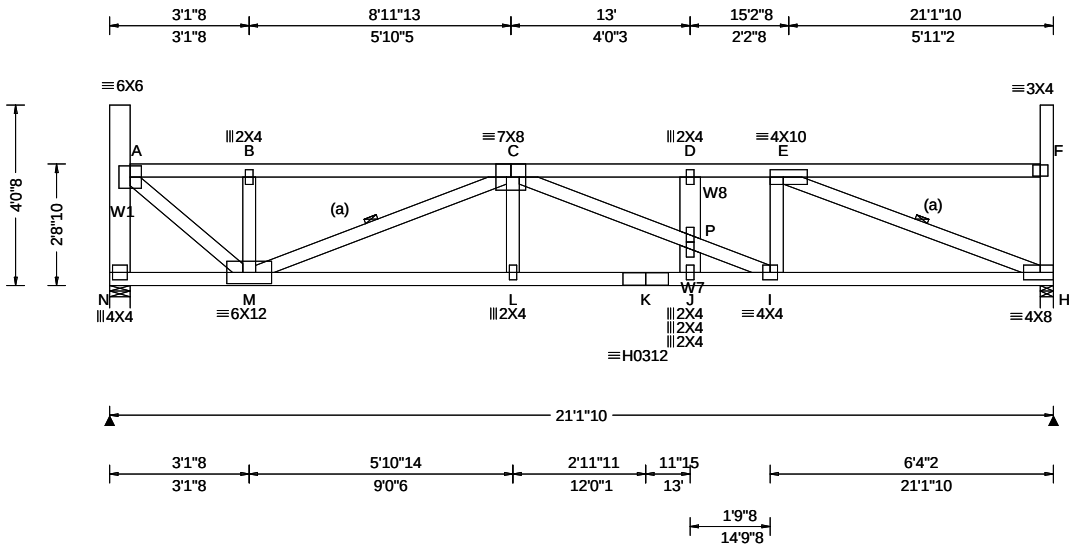
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36703 / FLAT FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T02	Cust: R 9316 JRef:1XfO93160002 T1 / DrwNo: 139.22.0903.12913 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.138	D	999	360
VERT(CL): 0.256	D	990	240
HORZ(LL): 0.036	H	-	-
HORZ(TL): 0.066	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.439
Max BC CSI: 0.523
Max Web CSI: 0.606

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1340	/-	/-	/640	/72	/120
H	1352	/-	/-	/644	/74	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.7 (Truss)
H Brg Wid = 3.5 Min Req = 1.7 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	136	- 1624	C - D	137	- 2651
B - C	136	- 1621	D - E	137	- 2651

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	3043	- 236	J - I	3043	- 236
L - K	3043	- 236	I - H	2579	- 154
K - J	3043	- 236			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	76	- 1286	P - I	94	- 436
A - M	1934	- 116	I - E	605	- 3
M - C	127	- 1537	E - H	165	- 2736
C - P	93	- 420			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.32	13.12	3.16
20.84	0.00	20.39	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

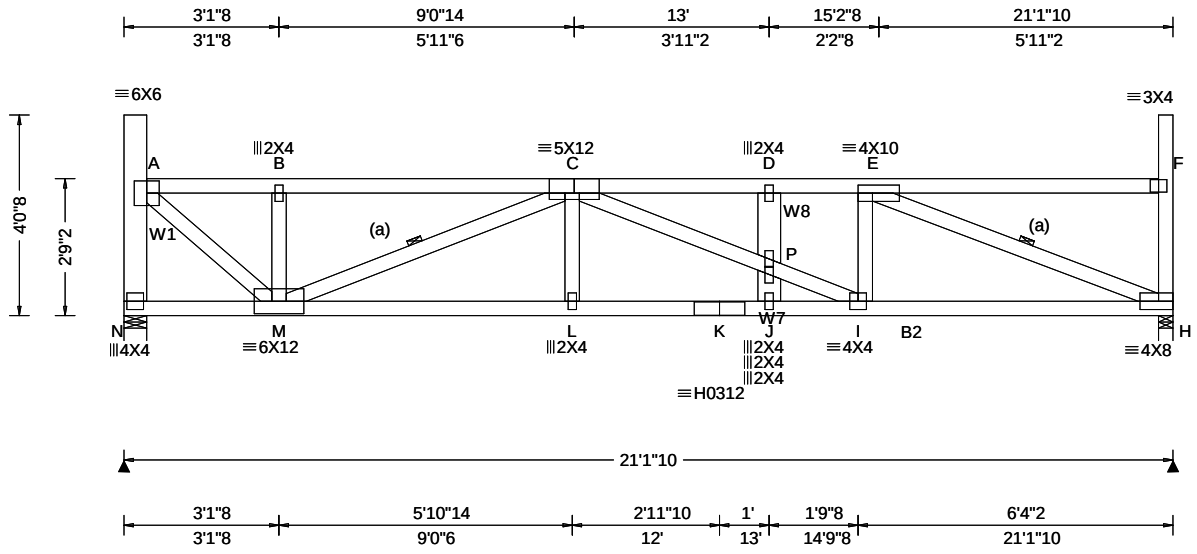
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36704 / FLAT FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T03	Cust: R 9316 JRef:1XfO93160002 T2 / DrwNo: 139.22.0903.13852 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.142	D	999	360
VERT(CL): 0.255	D	994	240
HORZ(LL): 0.040	H	-	-
HORZ(TL): 0.075	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.440
Max BC CSI: 0.996
Max Web CSI: 0.600

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1342	/-	/-	/639	/73	/119
H	1353	/-	/-	/644	/75	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 2.1 (Truss)
H Brg Wid = 3.5 Min Req = 1.7 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	134	- 1601	C - D	136	- 2612
B - C	134	- 1598	D - E	136	- 2612

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2997	- 235	J - I	2997	- 235
L - K	2997	- 235	I - H	2541	- 153
K - J	2997	- 235			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	77	- 1290	P - I	93	- 742
A - M	1919	- 115	I - E	605	- 3
M - C	126	- 1516	E - H	164	- 2703
C - P	92	- 722			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.28	11.74	2.83
20.84	0.00	20.39	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.14" DL: 0.14". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

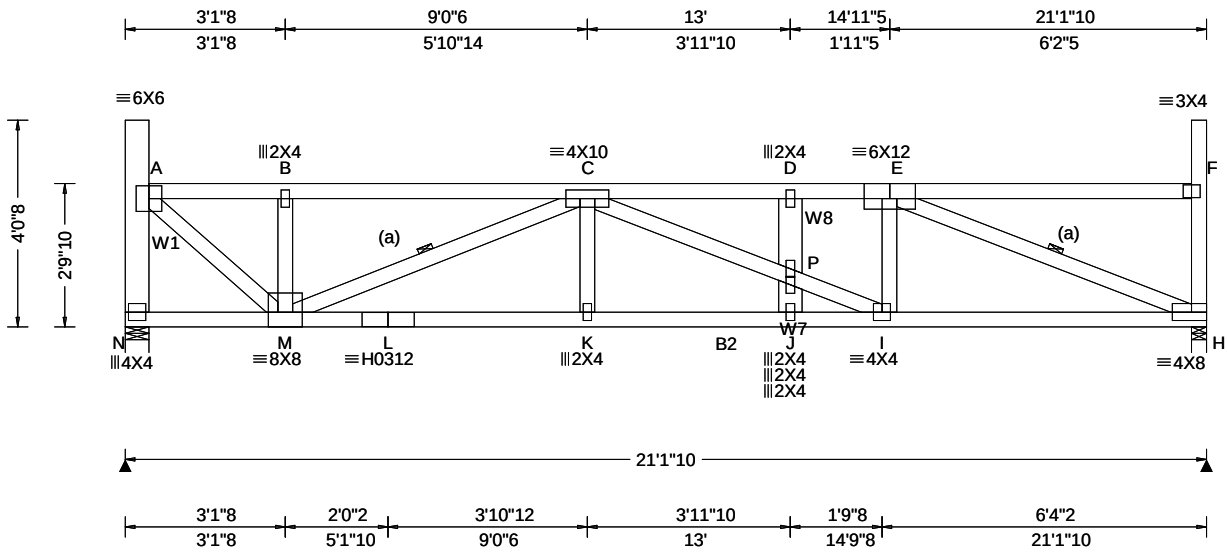
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36705 / FLAT FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T04	Cust: R 9316 JRef:1XfO93160002 T3 / DrwNo: 139.22.0903.19081 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.132	D	999	360
VERT(CL): 0.236	D	999	240
HORZ(LL): 0.036	H	-	-
HORZ(TL): 0.067	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.440
Max BC CSI: 0.919
Max Web CSI: 0.592

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1342	/-	/-	/639	/73	/118
H	1353	/-	/-	/644	/75	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 2.1 (Truss)
H Brg Wid = 3.5 Min Req = 1.7 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	132	- 1571	C - D	159	- 2565
B - C	132	- 1567	D - E	159	- 2565

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2953	- 232	J - I	2953	- 232
L - K	2953	- 232	I - H	2494	- 151
K - J	2953	- 232			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	78	- 1287	P - I	92	- 685
A - M	1894	- 114	I - E	611	- 3
M - C	123	- 1506	E - H	161	- 2659
C - P	91	- 659			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.24	10.35	2.50
20.84	0.00	20.39	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

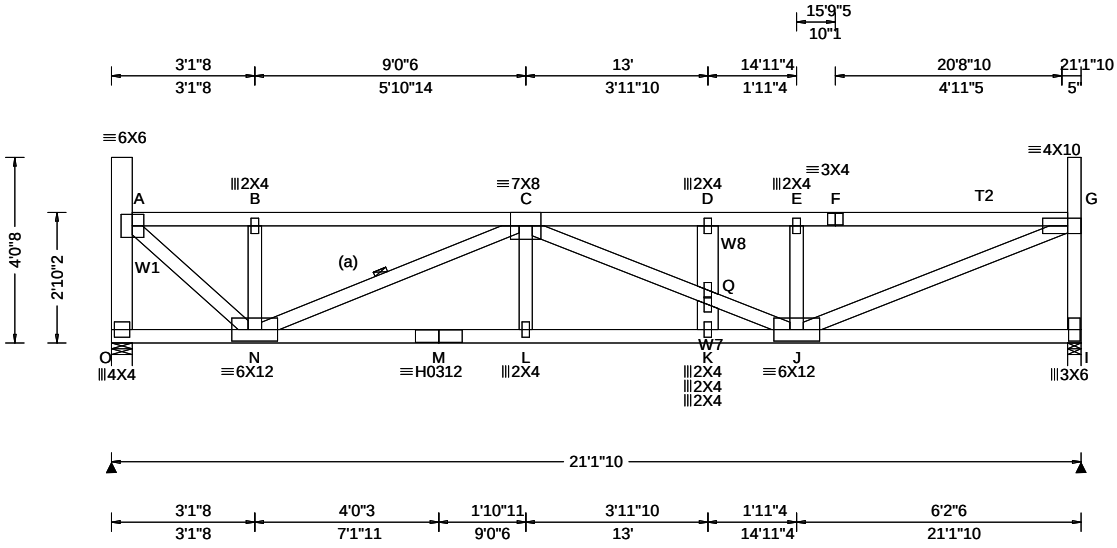
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36775 / FLAT FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T05	Cust: R 9316 JRef:1XfO93160002 T4 / DrwNo: 139.22.0903.09769 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.153	D	999	360
VERT(CL): 0.283	D	895	240
HORZ(LL): 0.034	A	-	-
HORZ(TL): 0.063	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.626
Max BC CSI: 0.730
Max Web CSI: 0.771

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	1435	/-	/-	/-	/115	/-
I	1602	/-	/-	/-	/238	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 1.8 (Truss)
I Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	137	-1659	D - E	430	-3020
B - C	137	-1656	E - F	430	-3017
C - D	430	-3020	F - G	430	-3025

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	3240	-327	L - K	3240	-327
M - L	3240	-327	K - J	3240	-327

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	114	-1381	Q - J	0	-448
A - N	2014	-167	J - G	3143	-446
N - C	207	-1726	G - I	187	-1404
C - Q	0	-432			

Lumber

Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 20.84
BC: From 60 plf at 0.00 to 60 plf at 13.29
BC: From 30 plf at 13.29 to 30 plf at 21.14
BC: 144 lb Conc. Load at 13.29,15.07,17.07,19.07

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.20	8.97	2.16
20.84	0.00	20.39	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

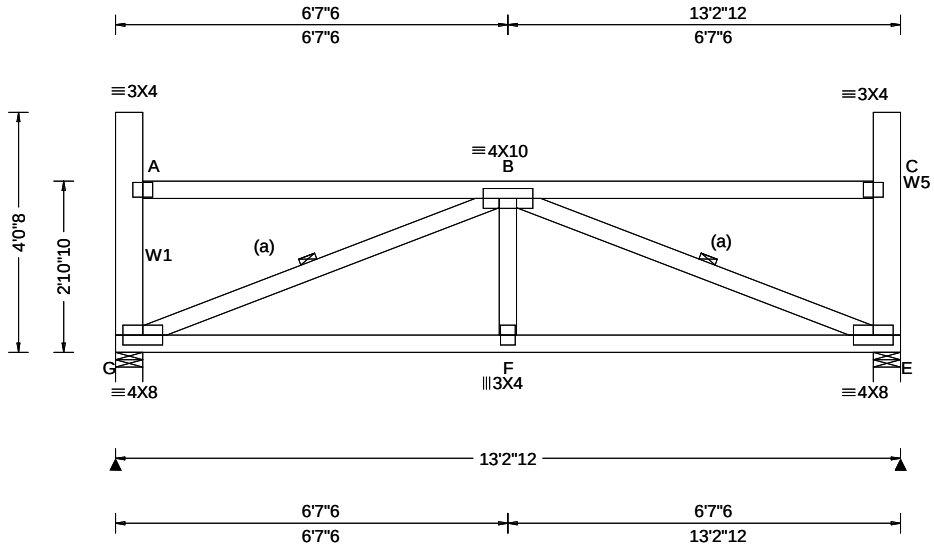
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36706 / SPEC FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T06	Cust: R 9316 JRef:1XfO93160002 T5 / DrwNo: 139.22.0903.12330 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.89 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.043	F	999	360
VERT(CL): 0.080	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.028	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.546
Max BC CSI: 0.744
Max Web CSI: 0.315

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	828	/-	/-	/407	/56	/115
E	828	/-	/-	/407	/56	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1311	- 165	F - E	1311	- 165

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	178	- 1334	B - E	176	- 1334
B - F	440	0			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.59	1.83
12.77	0.00	20.00	1.16	7.59	1.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

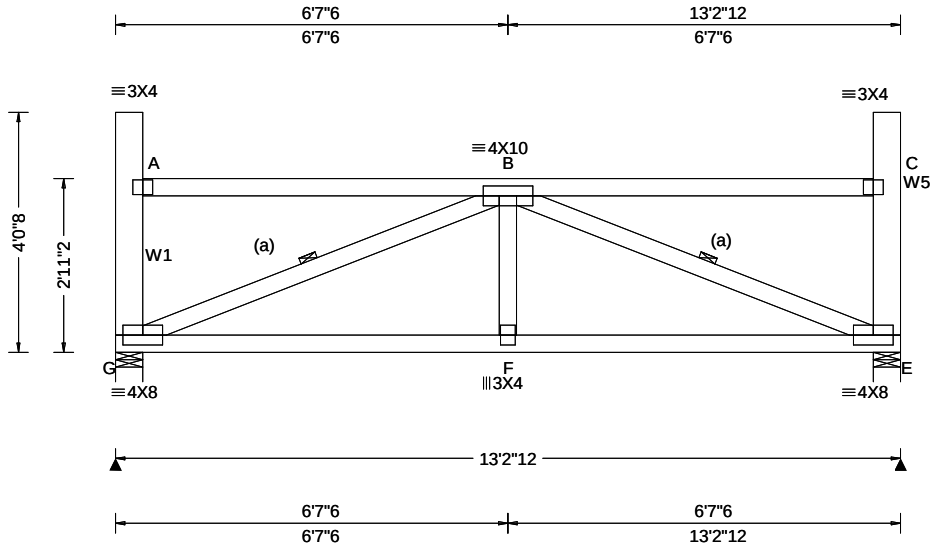
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36707 / FLAT FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T07	Cust: R 9316 JRef:1XfO93160002 T6 / DrwNo: 139.22.0903.16381 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.93 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.042 F	999	360
VERT(CL):	0.078 F	999	240
HORZ(LL):	0.015 E	-	-
HORZ(TL):	0.028 E	-	-

Creep Factor: 2.0
Max TC CSI: 0.547
Max BC CSI: 0.741
Max Web CSI: 0.312

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	828	/-	/-	/407	/56	/114
E	828	/-	/-	/407	/56	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1291	- 163	F - E	1291	- 163

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	174	- 1316	B - E	172	- 1316
B - F	440	0			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.11	6.20	1.50
12.77	0.00	20.00	1.11	6.20	1.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

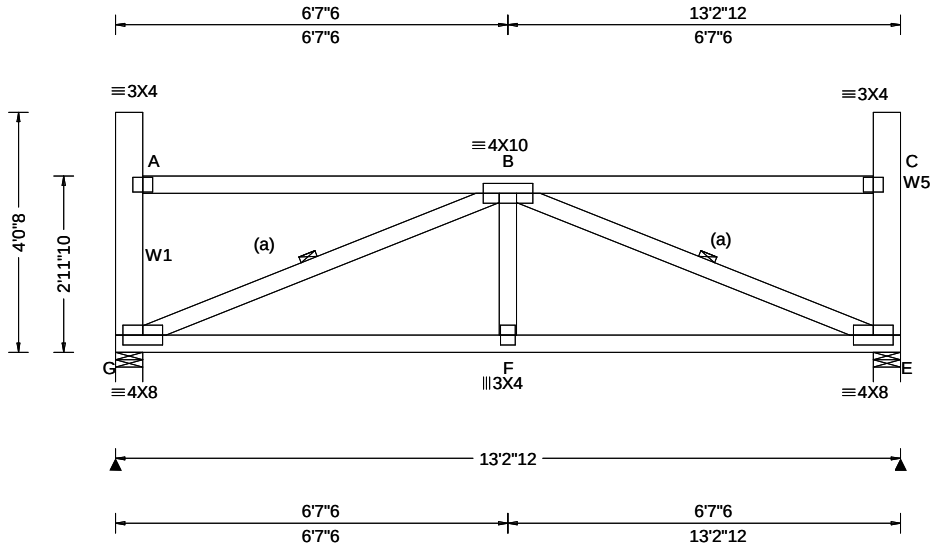
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36708 / FLAT FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T08	Cust: R 9316 JRef:1XfO93160002 T7 / DrwNo: 139.22.0903.14246 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.97 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.041	F	999	360
VERT(CL): 0.076	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.027	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.548
Max BC CSI: 0.738
Max Web CSI: 0.309

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	828	/-	/-	/407	/56	/113
E	828	/-	/-	/407	/56	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1271	- 161	F - E	1271	- 161

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	170	- 1299	B - E	168	- 1299
B - F	441	0			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

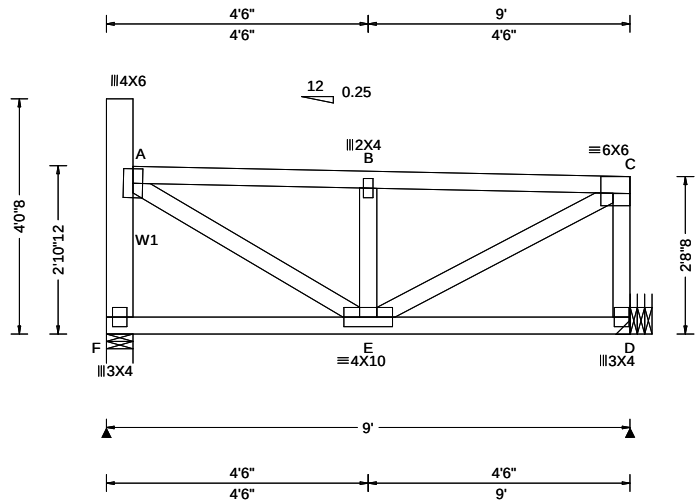
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36781 / MONO FROM:	Ply: 2 Qty: 8	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T10	Cust: R 9316 JRef:1XfO93160002 T9 / DrwNo: 139.22.0903.15383 / NDW 05/19/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.015	B	999	360
VERT(CL): 0.028	B	999	240
HORZ(LL): 0.004	A	-	-
HORZ(TL): 0.007	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.116
Max BC CSI: 0.730
Max Web CSI: 0.231

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	1371	/-	/-	/-	/177	/-
D	1611	/-	/-	/-	/149	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = - Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	96	-857	B - C	96	-858

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
F - A	51	-487	E - C	940	-107
A - E	900	-96	C - D	56	-506

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 3.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	35 plf at	0.46 to	35 plf at	9.00	
BC: From	60 plf at	0.00 to	60 plf at	2.33	
BC: From	30 plf at	2.33 to	30 plf at	9.00	
BC:	762 lb Conc. Load at	2.33			
BC:	527 lb Conc. Load at	4.33, 6.33, 8.33			

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.84

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

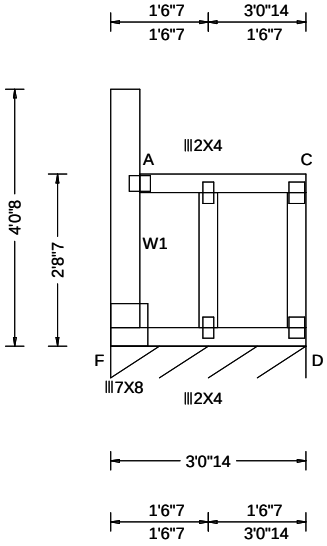
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36709 / GABL FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T11	Cust: R 9316 JRef:1XfO93160002 T108 DrwNo: 139.22.0903.14182 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.007 A	999	360
VERT(CL):	0.009 A	999	240
HORZ(LL):	0.116 A	-	-
HORZ(TL):	0.135 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.116
Max BC CSI: 0.324
Max Web CSI: 0.141

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	120	/-	/-	/56	/4	/30

Wind reactions based on MWFRS
D Brg Wid = 36.9 Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.34	13.63	2.61

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

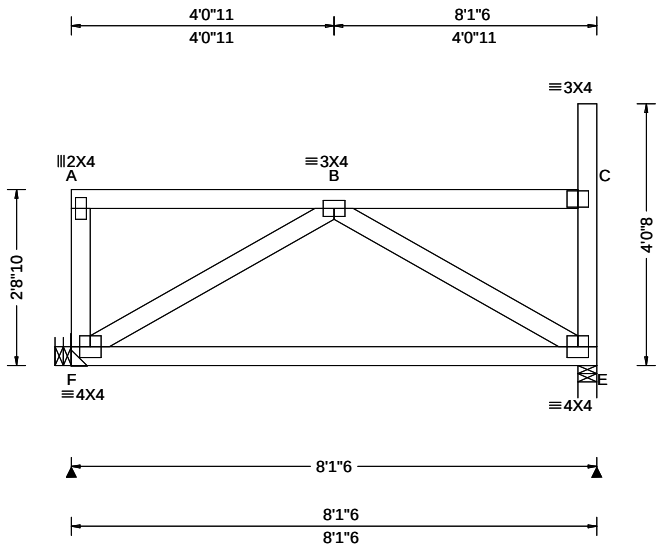
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36710 / FLAT FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T12	Cust: R 9316 JRef:1XfO93160002 T210 DrwNo: 139.22.0903.12671 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.217
Max BC CSI: 0.611
Max Web CSI: 0.204

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/43	/92
E	507	/-	/-	/255	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

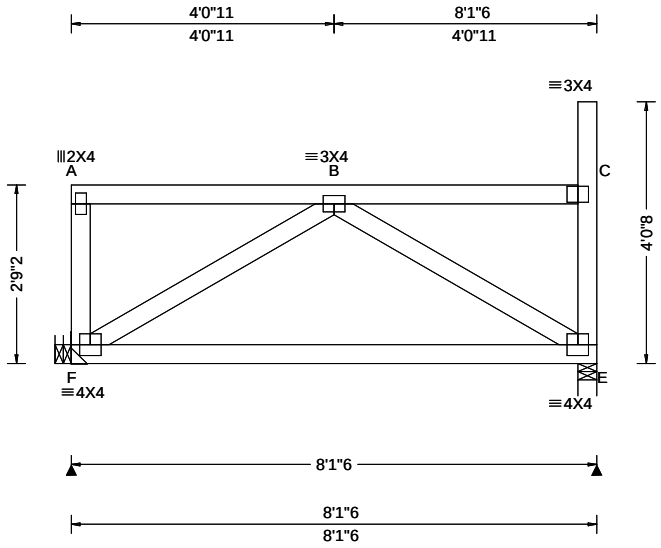
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36711 / FLAT FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T13	Cust: R 9316 JRef:1XfO93160002 T126 DrwNo: 139.22.0903.15726 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.217
Max BC CSI: 0.611
Max Web CSI: 0.204

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/44	/91
E	507	/-	/-	/255	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

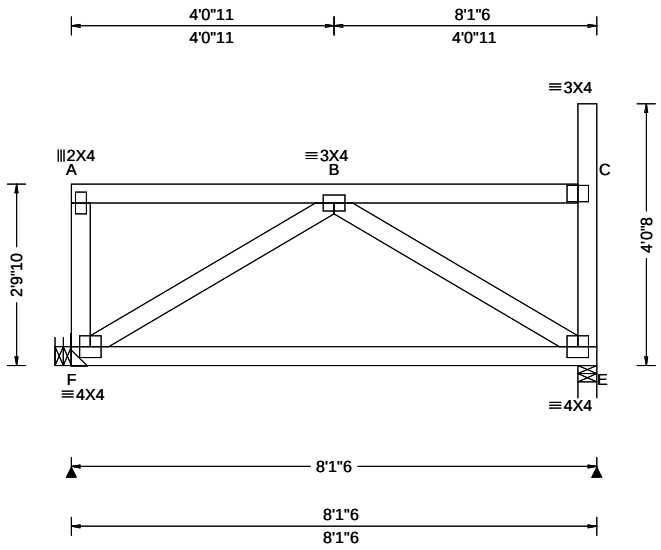
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36712 / FLAT FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T14	Cust: R 9316 JRef:1XfO93160002 T130 DrwNo: 139.22.0903.18518 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.007	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.218
Max BC CSI: 0.610
Max Web CSI: 0.203

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/44	/91
E	507	/-	/-	/255	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

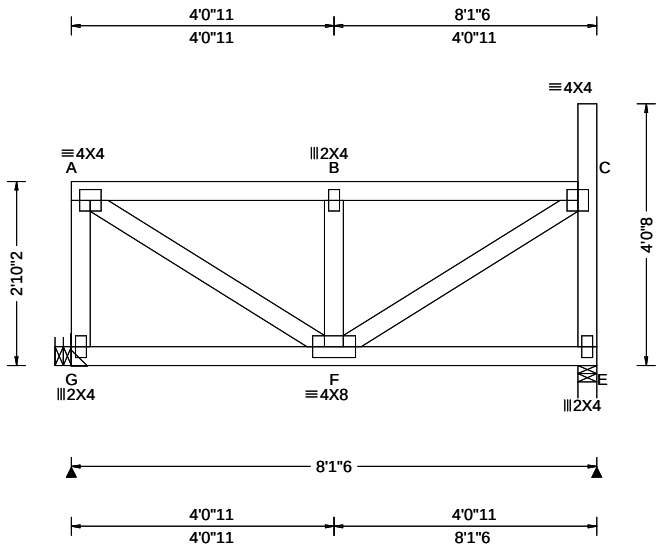
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36778 / FLAT FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T15	Cust: R 9316 JRef:1XfO93160002 T124 DrwNo: 139.22.0903.11893 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.012 B	999	360
VERT(CL):	0.021 B	999	240
HORZ(LL):	-0.002 C	-	-
HORZ(TL):	0.004 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.239
Max BC CSI: 0.340
Max Web CSI: 0.190

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
G	762 /-	/-	/-	/168	/-
E	607 /-	/-	/-	/111	/-

Wind reactions based on MWFRS
G Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	135	-667	B - C	135	-671

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	91	-528	F - C	745	-151
A - F	773	-156	C - E	91	-510

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 7.82
BC: From 30 plf at 0.00 to 30 plf at 8.11
BC: 144 lb Conc. Load at 0.27, 2.05, 4.05, 6.05

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

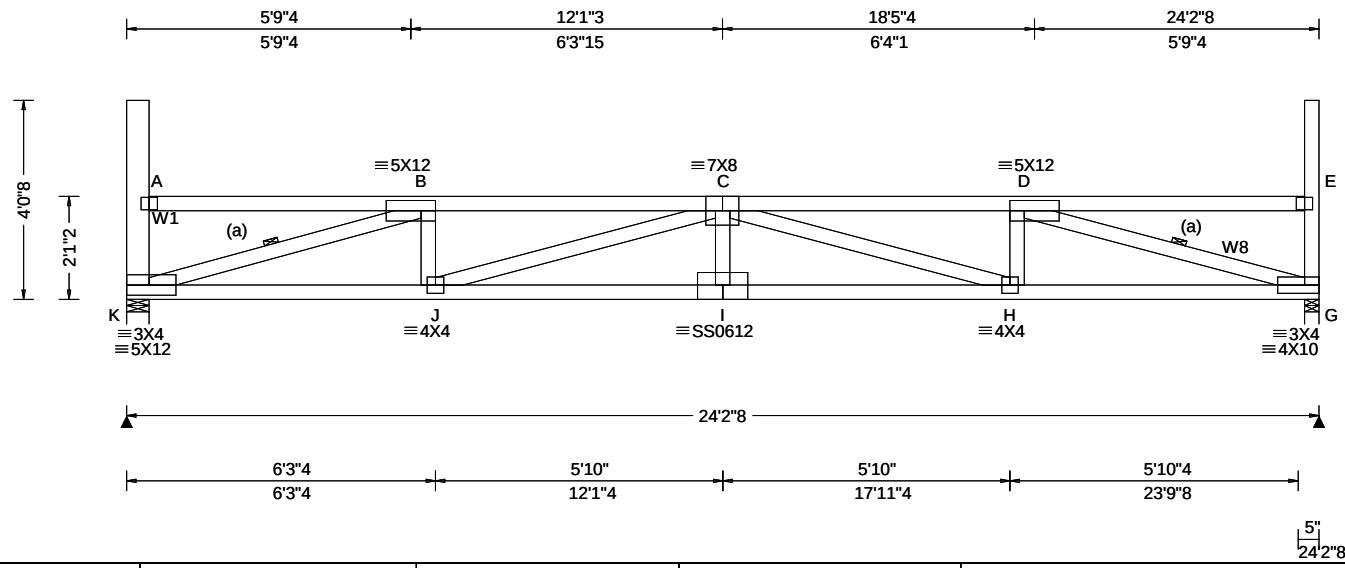
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36713 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T17	Cust: R 9316 JRef:1XfO93160002 T127 DrwNo: 139.22.0943.48133 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.378	I	767	360
VERT(CL): 0.703	I	413	240
HORZ(LL): 0.078	G	-	-
HORZ(TL): 0.146	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.760
Max BC CSI: 0.719
Max Web CSI: 0.852

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/731	/78	/129
G	1553	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	233	- 4209	C - D	226	- 4229

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4088	- 365	I - H	5417	- 305
J - I	5417	- 305	H - G	4106	- 206

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	237	- 4162	C - H	142	- 1242
B - J	759	- 2	H - D	774	- 1
J - C	144	- 1264	D - G	235	- 4232

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;
W8 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.95	33.87	4.20
23.92	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

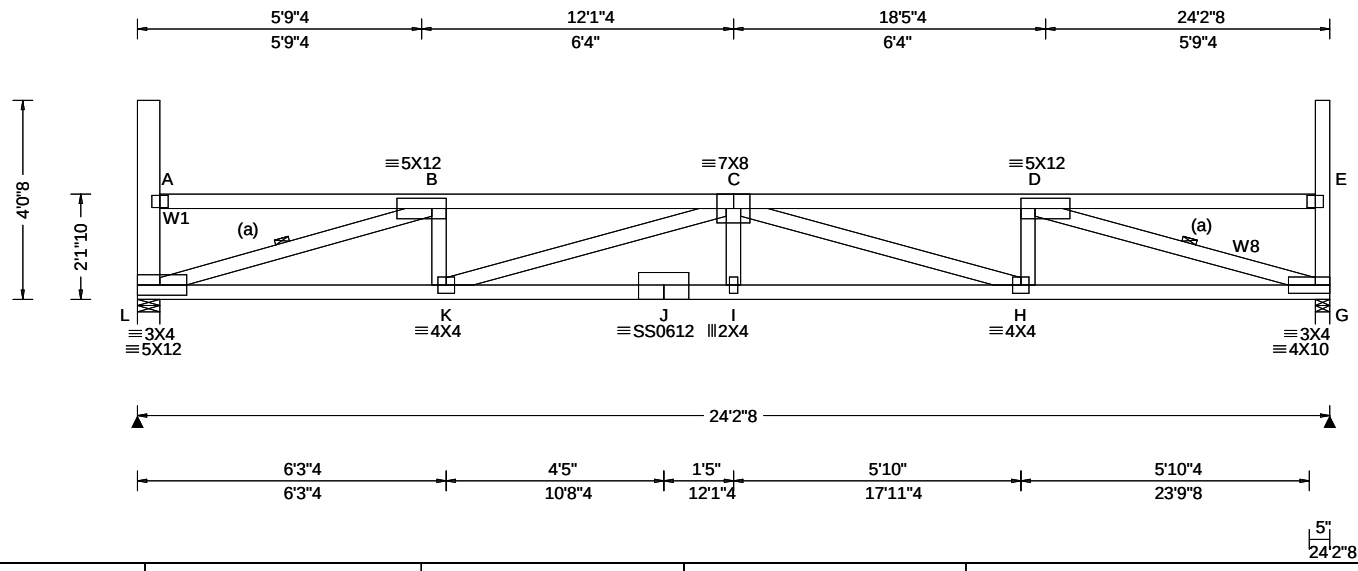
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36796 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T18	Cust: R 9316 JRef:1XfO93160002 T125 DrwNo: 139.22.0943.59403 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.383	I	758	360
VERT(CL): 0.694	I	418	240
HORZ(LL): 0.081	G	-	-
HORZ(TL): 0.147	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.775
Max BC CSI: 0.720
Max Web CSI: 0.866

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1588	/-	/-	/731	/78	/127
G	1600	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	229	- 4242	C - D	221	- 4262

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	4122	- 359	I - H	5463	- 301
K - J	5463	- 301	H - G	4140	- 202
J - I	5463	- 301			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	233	- 4207	C - H	138	- 1260
B - K	771	- 2	H - D	786	- 1
K - C	140	- 1281	D - G	231	- 4276

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;
W8 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.91	32.49	4.38
23.92	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.31". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

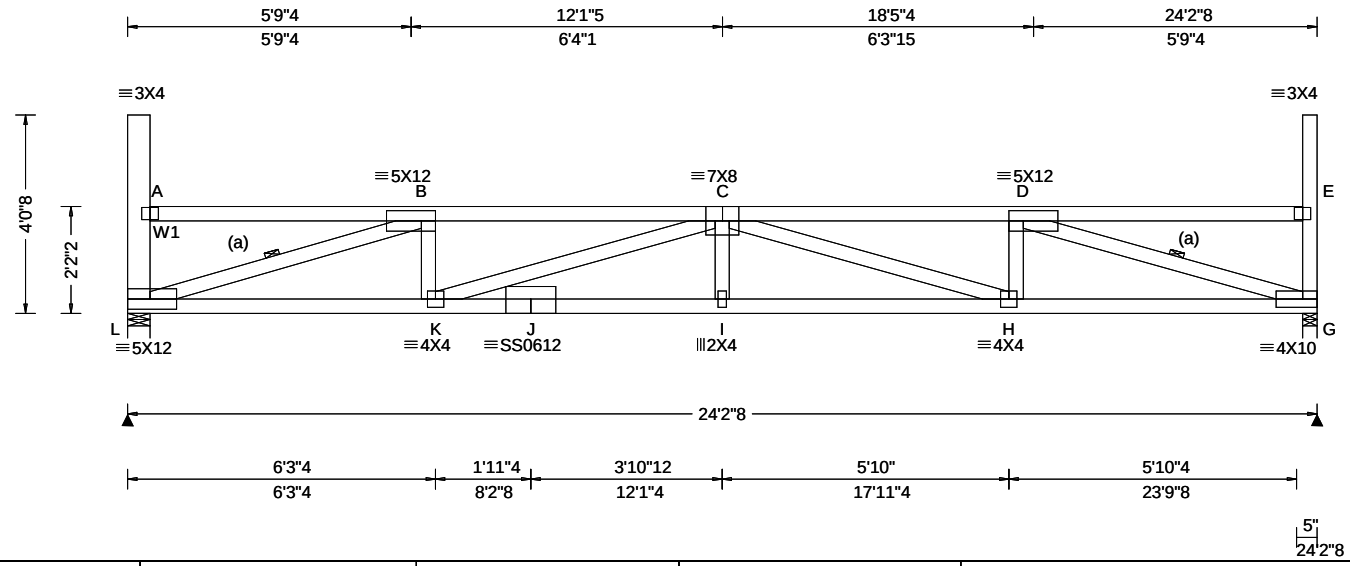
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36715 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T19	Cust: R 9316 JRef:1XfO93160002 T115 DrwNo: 139.22.0903.17645 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.356 I	817	360
VERT(CL):	0.661 I	439	240
HORZ(LL):	0.075 G	-	-
HORZ(TL):	0.139 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.703
Max BC CSI: 0.691
Max Web CSI: 0.853

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/78	/126
G	1553	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	225	-4029	C - D	216	-4040

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3913	-353	I - H	5185	-296
K - J	5185	-296	H - G	3922	-197
J - I	5185	-296			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	228	-4002	C - H	135	-1204
B - K	760	-2	H - D	774	-1
K - C	136	-1216	D - G	226	-4056

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

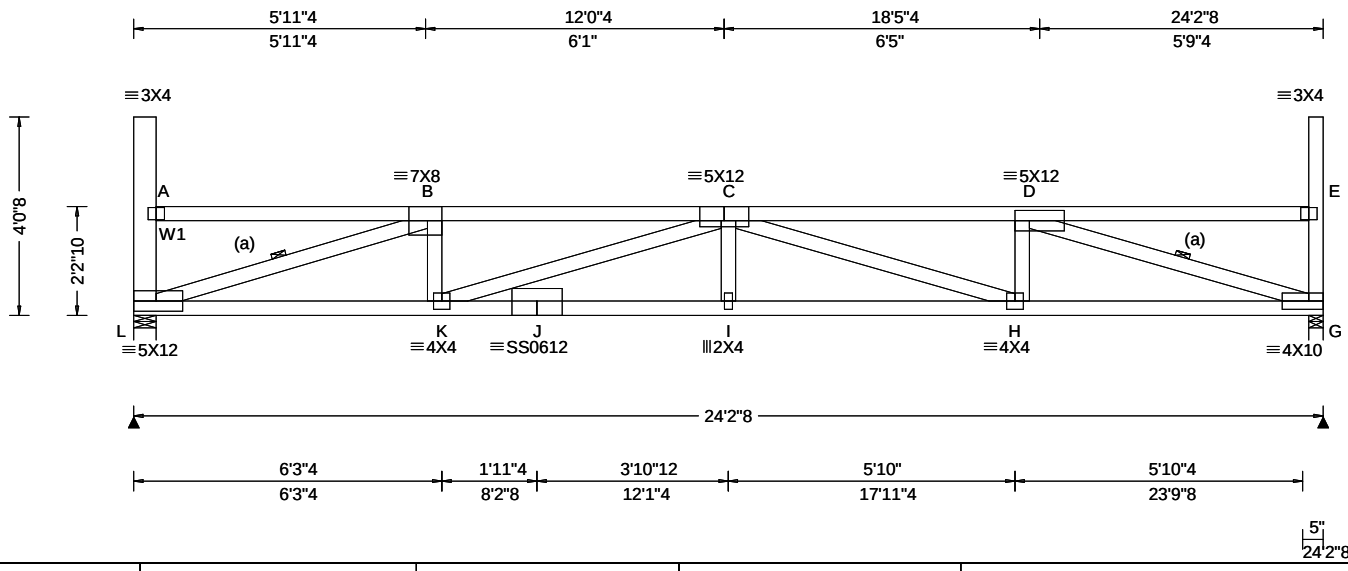
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 36716 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T20	Cust: R 9316 JRef:1XfO93160002 T116 DrwNo: 139.22.0903.11895 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.341 I	851	360
VERT(CL):	0.634 I	457	240
HORZ(LL):	0.073 G	-	-
HORZ(TL):	0.137 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.680
Max BC CSI: 0.681
Max Web CSI: 0.839

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/78	/124
G	1553	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	221	- 3945	C - D	212	- 3955

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3831	- 347	I - H	5076	- 292
K - J	5076	- 292	H - G	3840	- 194
J - I	5076	- 292			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	224	- 3927	C - H	132	- 1180
B - K	760	- 1	H - D	774	- 1
K - C	133	- 1191	D - G	222	- 3980

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.82	29.72	4.79
23.92	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

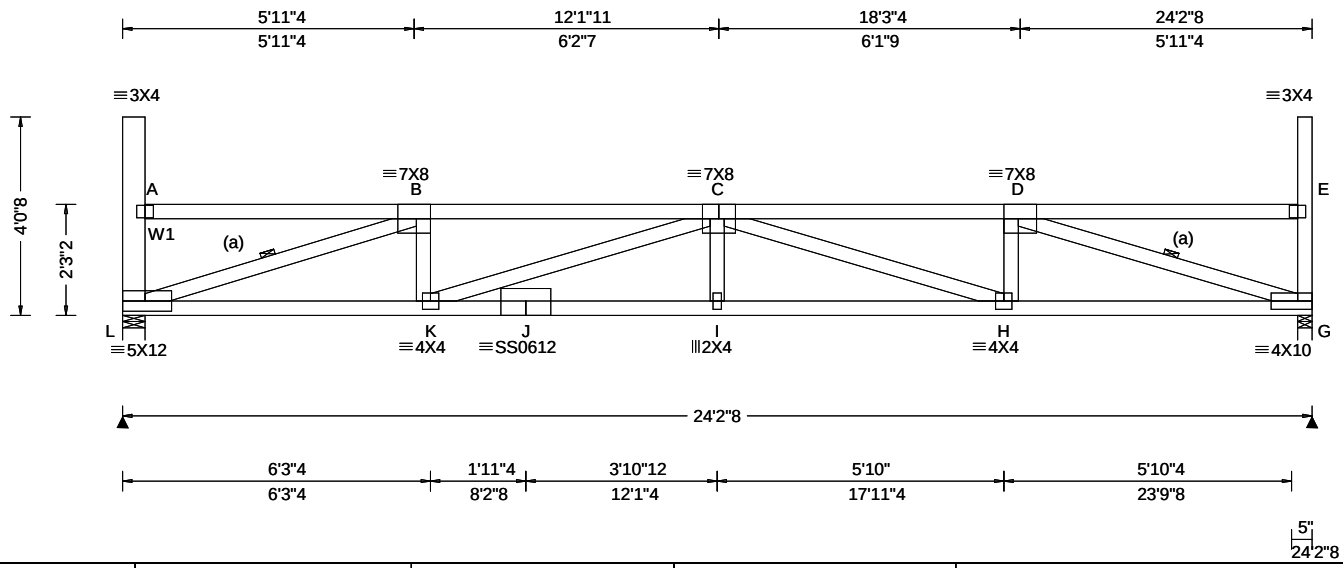
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36717 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T21	Cust: R 9316 JRef:1XfO93160002 T117 DrwNo: 139.22.0903.10266 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.327	I	887	360
VERT(CL): 0.608	I	477	240
HORZ(LL): 0.072	G	-	-
HORZ(TL): 0.134	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.656
Max BC CSI: 0.671
Max Web CSI: 0.824

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1540	/-	/-	/730	/78	/123
G	1552	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	199	- 3860	C - D	187	- 3870

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3748	- 340	I - H	4963	- 286
K - J	4963	- 286	H - G	3757	- 182
J - I	4963	- 286			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	219	- 3851	C - H	128	- 1153
B - K	759	- 1	H - D	773	0
K - C	129	- 1164	D - G	217	- 3902

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.33" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

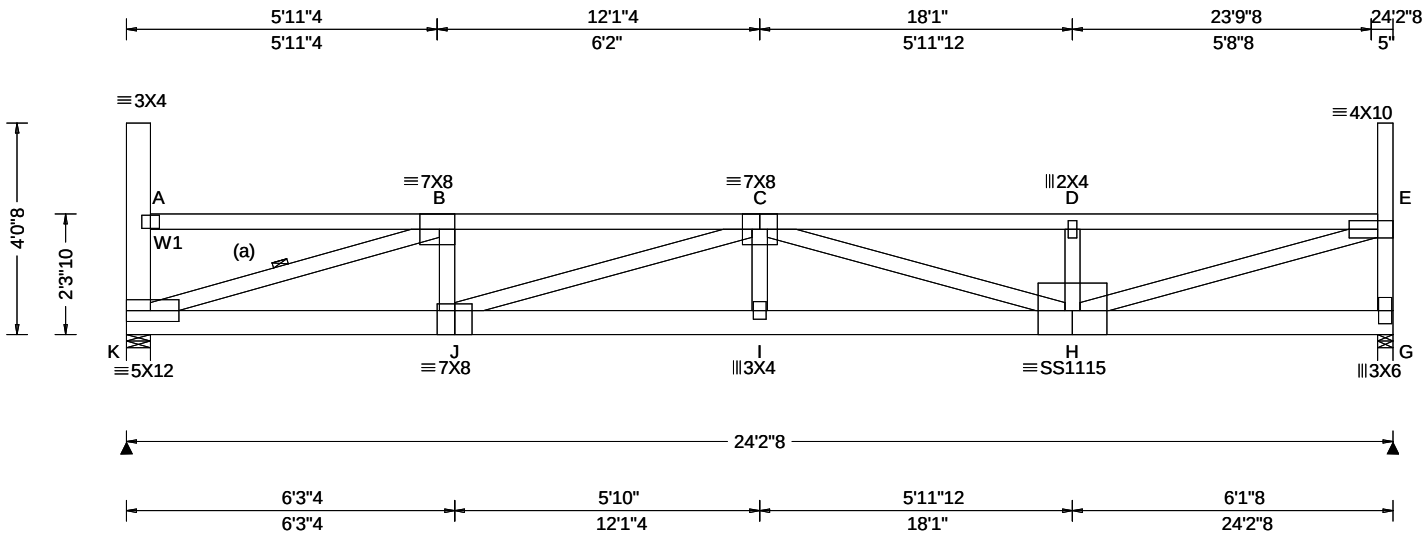
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36718 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T22	Cust: R 9316 JRef:1XfO93160002 T118 DrwNo: 139.22.0944.11557 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.311 I	934	360
VERT(CL):	0.578 I	502	240
HORZ(LL):	0.051 A	-	-
HORZ(TL):	0.096 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.896
Max BC CSI: 0.641
Max Web CSI: 0.960

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1542	/-	/-	/730	/78	/119
G	1553	/-	/-	/736	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.4 (Truss)
G Brg Wid = 3.5 Min Req = 2.4 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	201	- 3887	D - E	192	- 3852
C - D	192	- 3847			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3775	- 314	I - H	5048	- 275
J - I	5048	- 275			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	219	- 3886	C - H	115	- 1262
B - J	746	0	H - E	3911	- 220
J - C	120	- 1223	E - G	93	- 1370

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.74	26.95	5.28
23.92	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.31" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

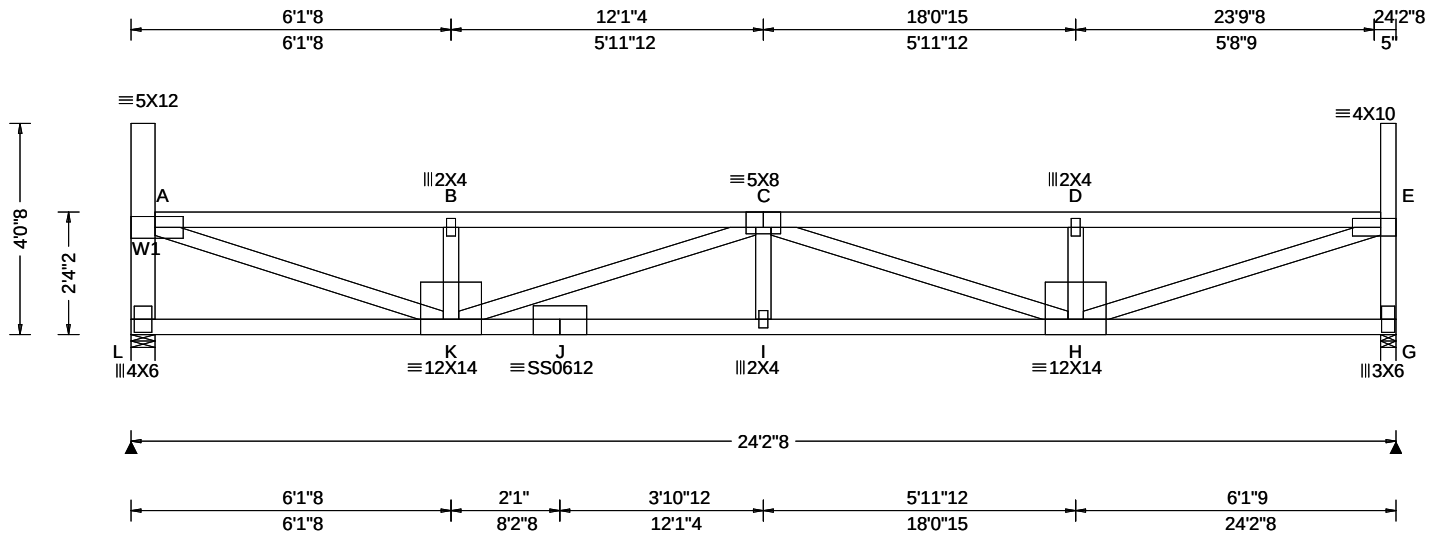
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36719 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T23	Cust: R 9316 JRef:1XfO93160002 T119 DrwNo: 139.22.0903.15307 / NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.318 I 914 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.591 I 491 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.054 A - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.100 A - -
NCBCLL: 0.00	Mean Height: 21.34 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.862
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.651
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.924
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 14.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/730	/78	/120
G	1553	/-	/-	/736	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	198	- 3686	C - D	184	- 3691
B - C	198	- 3681	D - E	185	- 3696

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4772	- 268	I - H	4772	- 268
J - I	4772	- 268			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	92	- 1372	C - H	111	- 1143
A - K	3690	- 213	H - E	3767	- 212
K - C	114	- 1153	E - G	94	- 1392

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.70	25.57	5.57
23.92	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

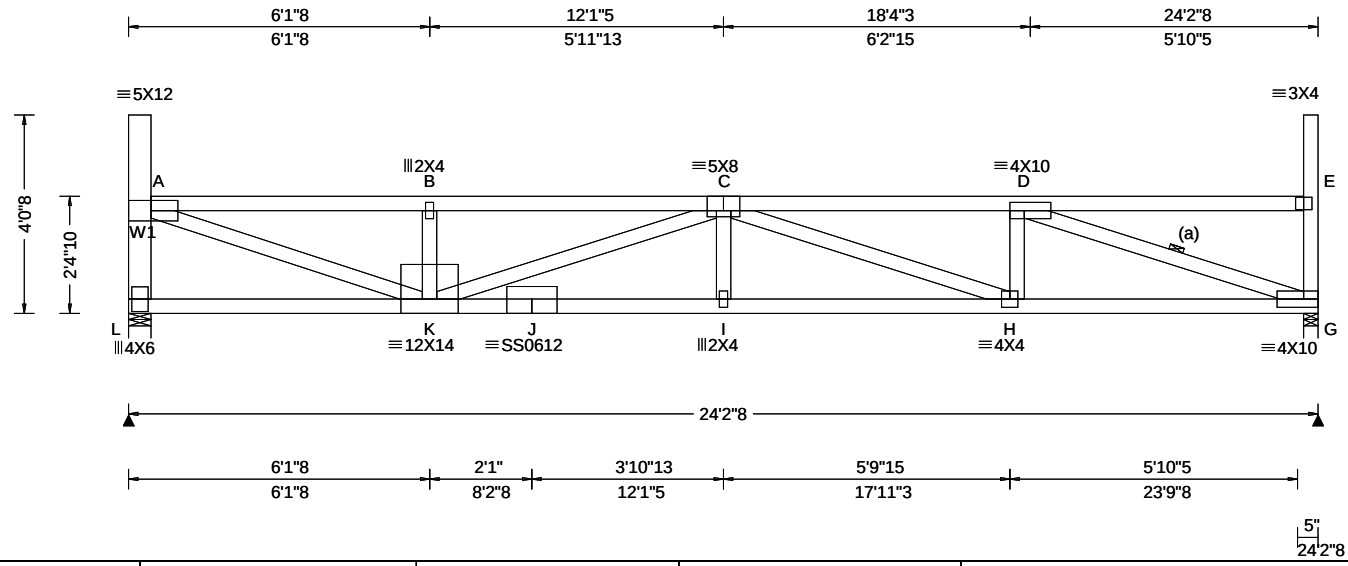
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36720 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T24	Cust: R 9316 JRef:1XfO93160002 T120 DrwNo: 139.22.0903.15491 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.298 I	973	360
VERT(CL):	0.555 I	523	240
HORZ(LL):	0.054 G	-	-
HORZ(TL):	0.100 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.822
Max BC CSI: 0.647
Max Web CSI: 0.890

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/730	/78	/119
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	195	- 3615	C - D	177	- 3649
B - C	194	- 3610			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4678	- 265	I - H	4678	- 265
J - I	4678	- 265	H - G	3542	- 176

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1373	C - H	111	- 1093
A - K	3626	- 209	H - D	772	0
K - C	112	- 1131	D - G	207	- 3704

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.26". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

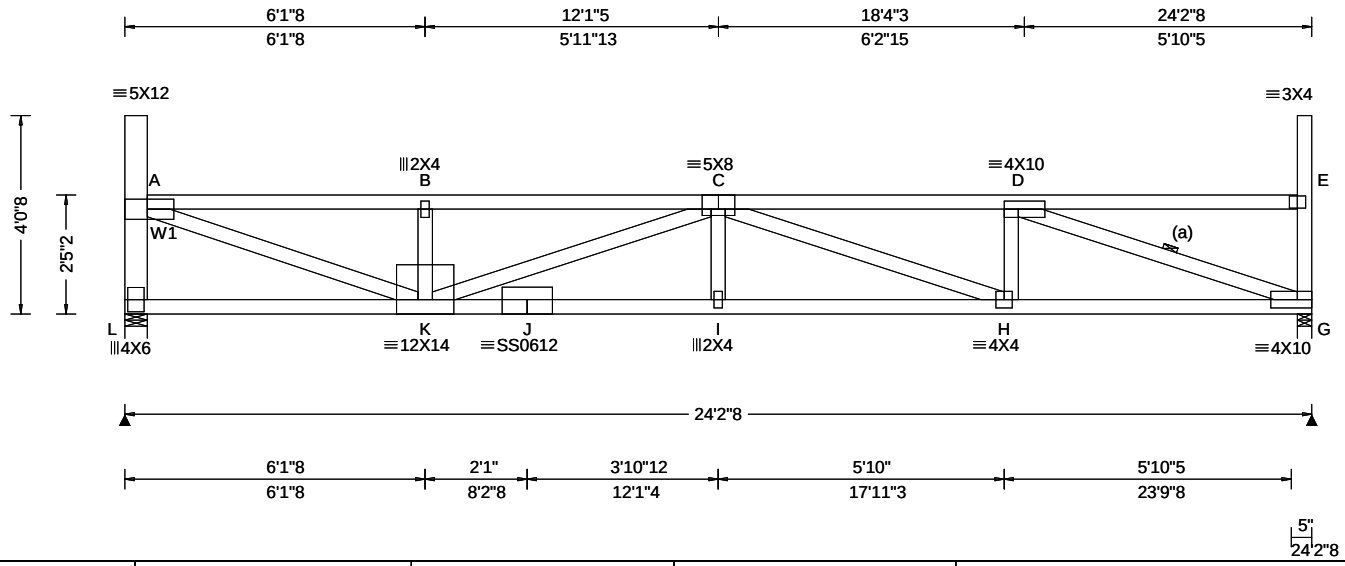
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36721 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T25	Cust: R 9316 JRef:1XfO93160002 T121 DrwNo: 139.22.0903.18027 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.287 I	999	360
VERT(CL):	0.534 I	543	240
HORZ(LL):	0.053 G	-	-
HORZ(TL):	0.098 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.794
Max BC CSI: 0.641
Max Web CSI: 0.874

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/730	/78	/118
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	191	- 3546	C - D	174	- 3579
B - C	191	- 3541			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4586	- 262	I - H	4586	- 262
J - I	4586	- 262	H - G	3475	- 174

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1373	C - H	109	- 1073
A - K	3563	- 205	H - D	772	0
K - C	109	- 1110	D - G	204	- 3641

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.61	22.80	5.50
23.92	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

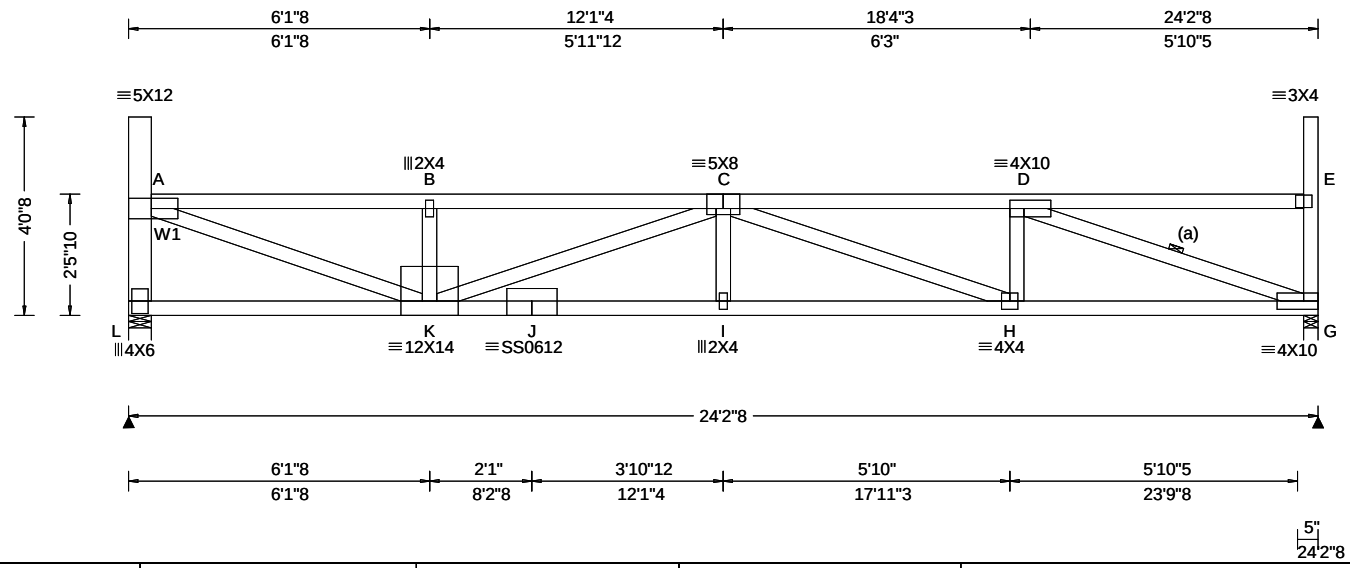
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36722 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T26	Cust: R 9316 JRef:1XfO93160002 T106 DrwNo: 139.22.0903.14249 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.277 I	999	360
VERT(CL):	0.515 I	563	240
HORZ(LL):	0.052 G	-	-
HORZ(TL):	0.096 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.754
Max BC CSI: 0.635
Max Web CSI: 0.860

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/730	/78	/116
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	189	- 3480	C - D	171	- 3512
B - C	188	- 3475			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4501	- 259	I - H	4501	- 259
J - I	4501	- 259	H - G	3410	- 172

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1374	C - H	107	- 1055
A - K	3504	- 202	H - D	772	0
K - C	107	- 1091	D - G	201	- 3582

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

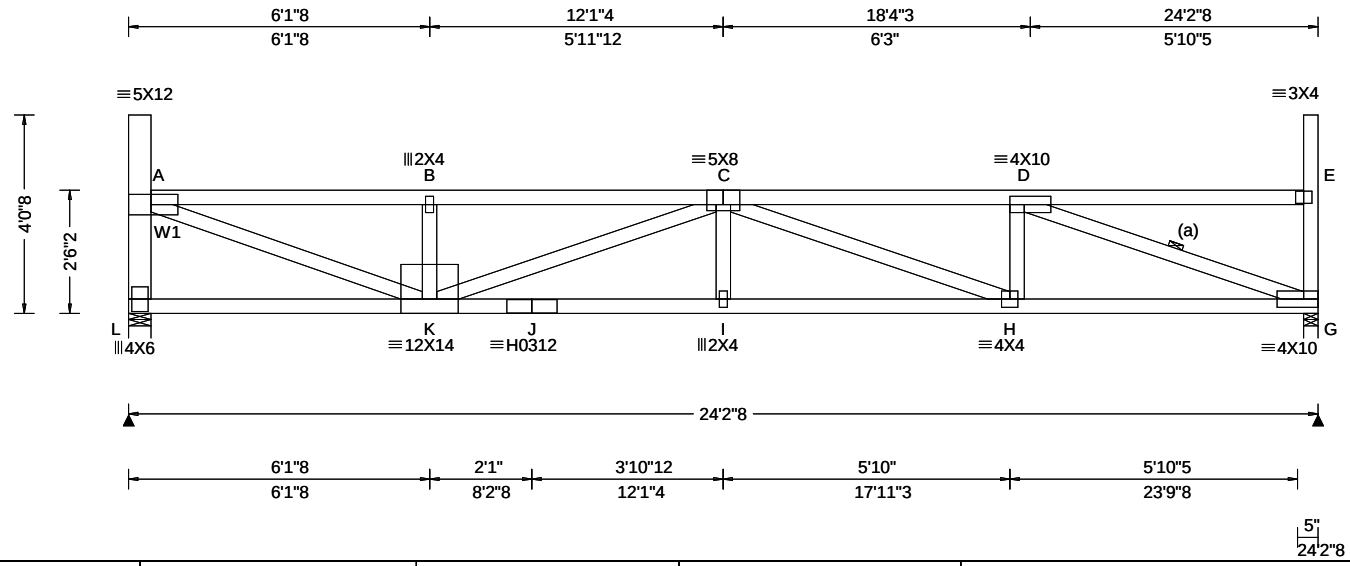
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36723 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T27	Cust: R 9316 JRef:1XfO93160002 T105 DrwNo: 139.22.0903.15911 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.268 I	999	360
VERT(CL):	0.497 I	584	240
HORZ(LL):	0.051 G	-	-
HORZ(TL):	0.094 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.719
Max BC CSI: 0.629
Max Web CSI: 0.846

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/115
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	186	- 3416	C - D	168	- 3448
B - C	185	- 3412			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4417	- 255	I - H	4417	- 255
J - I	4417	- 255	H - G	3347	- 170

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1374	C - H	104	- 1037
A - K	3447	- 198	H - D	772	0
K - C	105	- 1072	D - G	198	- 3524

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

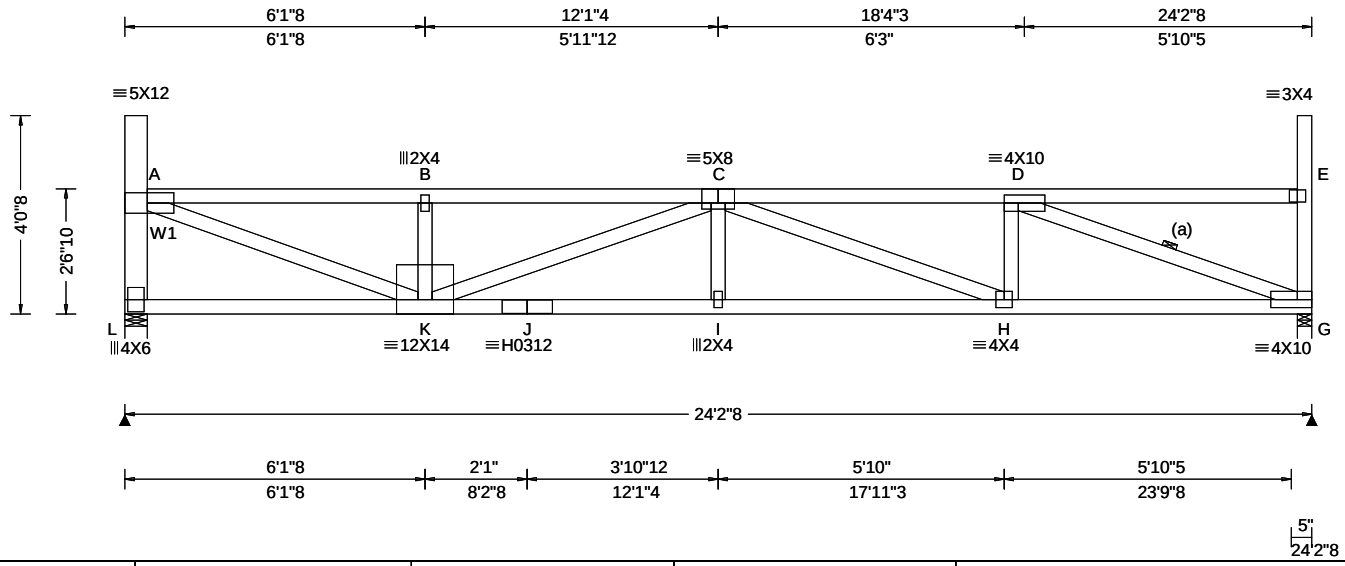
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36724 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T28	Cust: R 9316 JRef:1XfO93160002 T107 DrwNo: 139.22.0903.13178 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.258 I	999	360
VERT(CL):	0.480 I	604	240
HORZ(LL):	0.050 G	-	-
HORZ(TL):	0.093 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.687
Max BC CSI: 0.623
Max Web CSI: 0.832

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/113
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	183	- 3355	C - D	165	- 3386
B - C	182	- 3350			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4336	- 252	I - H	4336	- 252
J - I	4336	- 252	H - G	3287	- 168

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1374	C - H	102	- 1020
A - K	3391	- 195	H - D	772	0
K - C	102	- 1054	D - G	195	- 3469

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

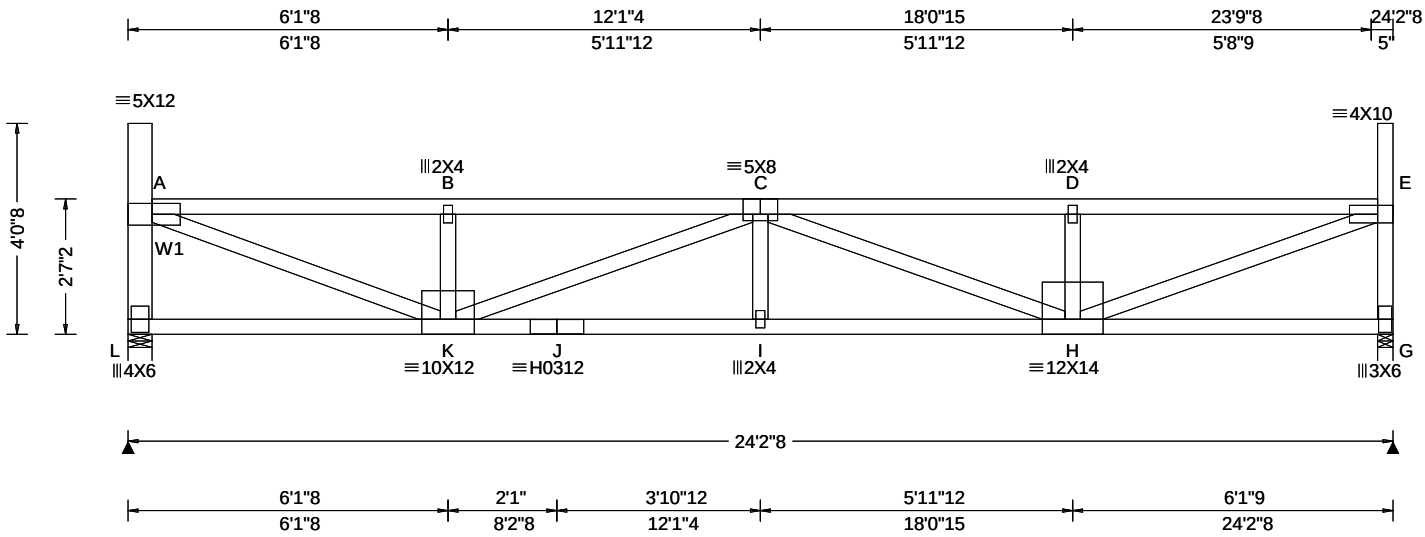
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36725 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T29	Cust: R 9316 JRef:1XfO93160002 T111 DrwNo: 139.22.0903.10487 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.256 I	999	360
VERT(CL):	0.476 I	610	240
HORZ(LL):	0.049 A	-	-
HORZ(TL):	0.090 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.694
Max BC CSI: 0.608
Max Web CSI: 0.836

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/112
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	180	- 3295	C - D	165	- 3299
B - C	180	- 3291	D - E	166	- 3304

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4259	- 248	I - H	4259	- 248
J - I	4259	- 248			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	- 1374	C - H	97	- 1029
A - K	3338	- 192	D - H	77	- 381
B - K	77	- 377	H - E	3407	- 191
K - C	99	- 1038	E - G	95	- 1394

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.45	17.27	4.16
23.92	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

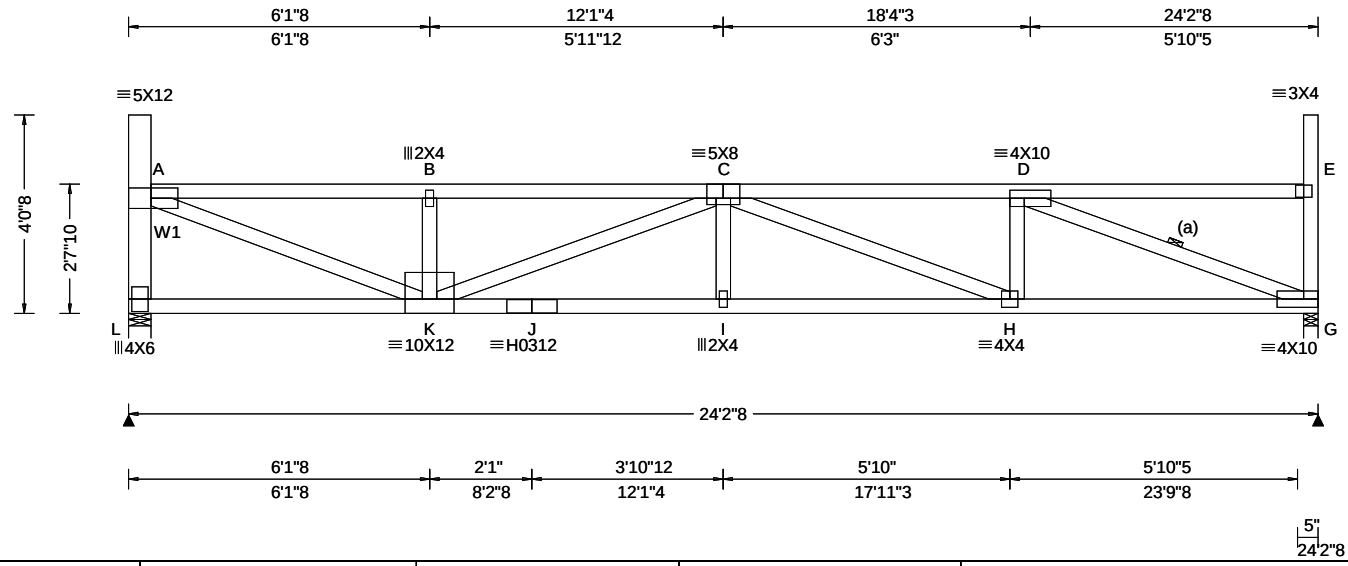
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36726 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T30	Cust: R 9316 JRef:1XfO93160002 T122 DrwNo: 139.22.0903.16939 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.242 I	999	360
VERT(CL):	0.449 I	646	240
HORZ(LL):	0.048 G	-	-
HORZ(TL):	0.089 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.649
Max BC CSI: 0.612
Max Web CSI: 0.806

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/111
G	1553	/-	/-	/735	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	178	-3238	C - D	159	-3267
B - C	177	-3234			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4184	-246	I - H	4184	-246
J - I	4184	-246	H - G	3172	-164

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	-1375	C - H	98	-988
A - K	3287	-188	H - D	772	0
B - K	77	-377	D - G	189	-3364
K - C	98	-1021			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

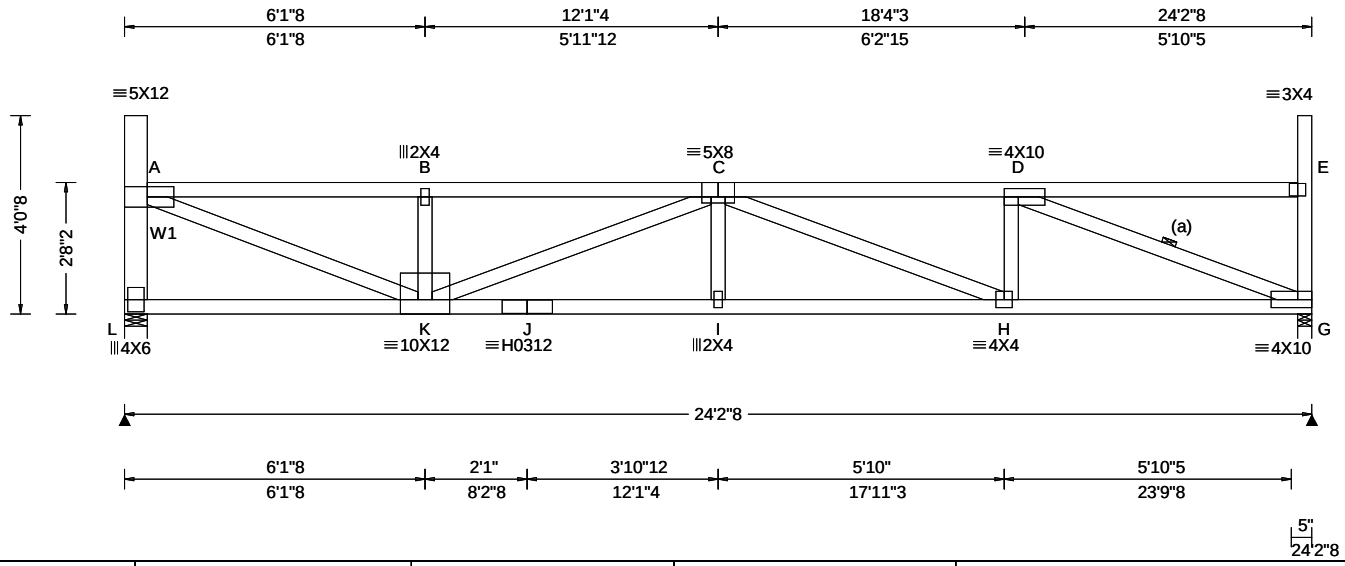
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36727 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T31	Cust: R 9316 JRef:1XfO93160002 T129 DrwNo: 139.22.0903.17947 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.234 I	999	360
VERT(CL):	0.435 I	668	240
HORZ(LL):	0.047 G	-	-
HORZ(TL):	0.088 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.637
Max BC CSI: 0.606
Max Web CSI: 0.794

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/109
G	1553	/-	/-	/735	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	175	-3183	C - D	156	-3211
B - C	174	-3178			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4111	-242	I - H	4111	-242
J - I	4111	-242	H - G	3118	-162

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	-1375	C - H	96	-972
A - K	3237	-185	H - D	772	0
B - K	77	-379	D - G	186	-3314
K - C	96	-1005			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.36	14.50	3.50
23.92	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

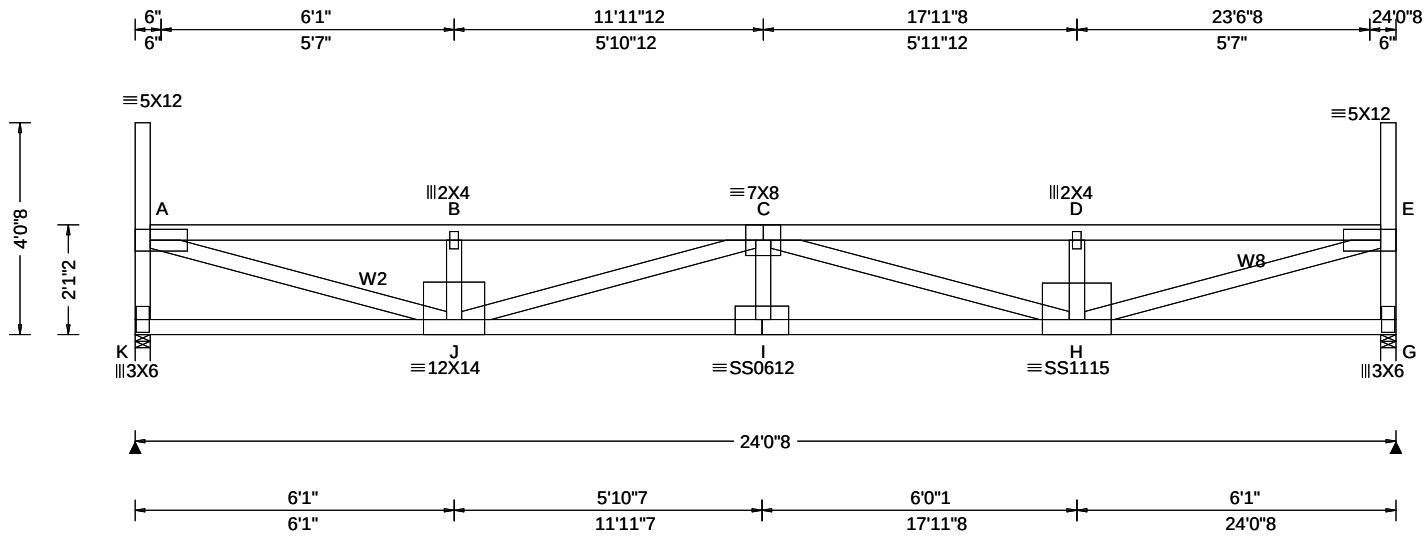
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36728 / FLAT FROM:	Ply: 1 Qty: 11	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T33	Cust: R 9316 JRef:1XfO93160002 T166 DrwNo: 139.22.0903.10402 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.380 I	759	360
VERT(CL):	0.706 I	408	240
HORZ(LL):	0.059 A	-	-
HORZ(TL):	0.110 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.932
Max BC CSI: 0.715
Max Web CSI: 0.844

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/733	/80	/138
G	1542	/-	/-	/733	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	239	-4139	C - D	239	-4138
B - C	238	-4133	D - E	239	-4143

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5337	-302	I - H	5337	-302

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	94	-1381	C - H	138	-1252
A - J	4178	-243	H - E	4183	-245
J - C	141	-1258	E - G	94	-1382

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2,W8 2x4 SPF 2100f-1.8E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.95	33.87	4.20
23.75	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.33". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

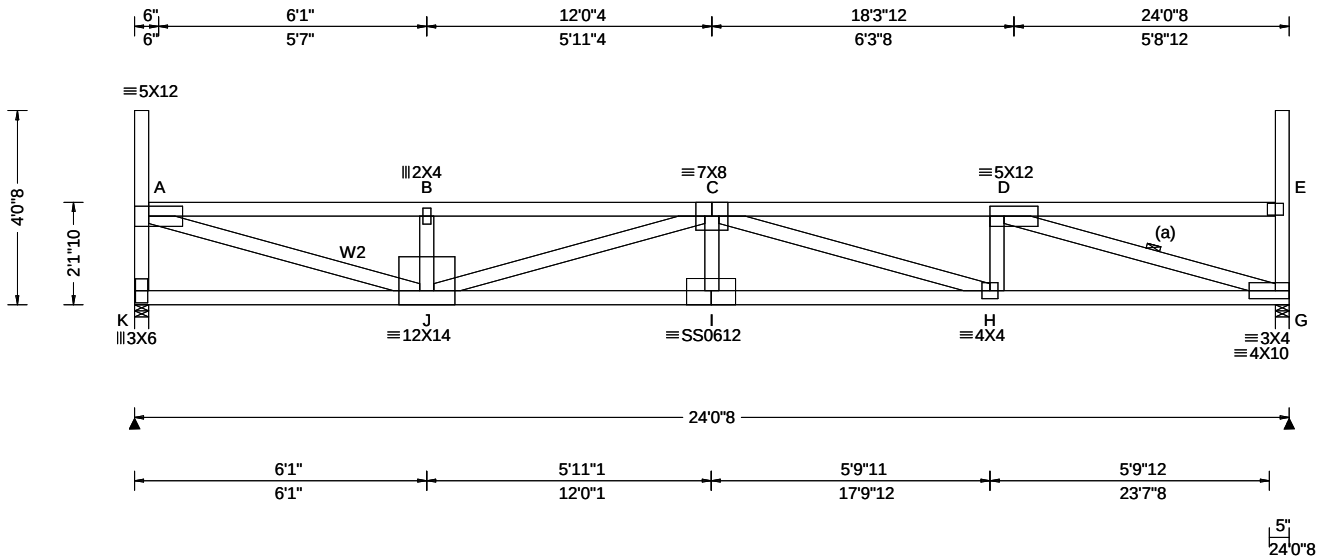
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36729 / FLAT FROM:	Ply: 1 Qty: 11	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T34	Cust: R 9316 JRef:1XfO93160002 T154 DrwNo: 139.22.0903.09789 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.363	I	795	360
VERT(CL): 0.674	I	428	240
HORZ(LL): 0.059	G	-	-
HORZ(TL): 0.110	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.916
Max BC CSI: 0.703
Max Web CSI: 0.849

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1542	/-	/-	/732	/80	/137
G	1542	/-	/-	/732	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	235	- 4051	C - D	231	- 4073
B - C	234	- 4046			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5221	- 298	H - G	3954	- 199
I - H	5221	- 298			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	94	- 1382	C - H	138	- 1205
A - J	4097	- 237	H - D	767	- 1
J - C	139	- 1231	D - G	231	- 4084

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

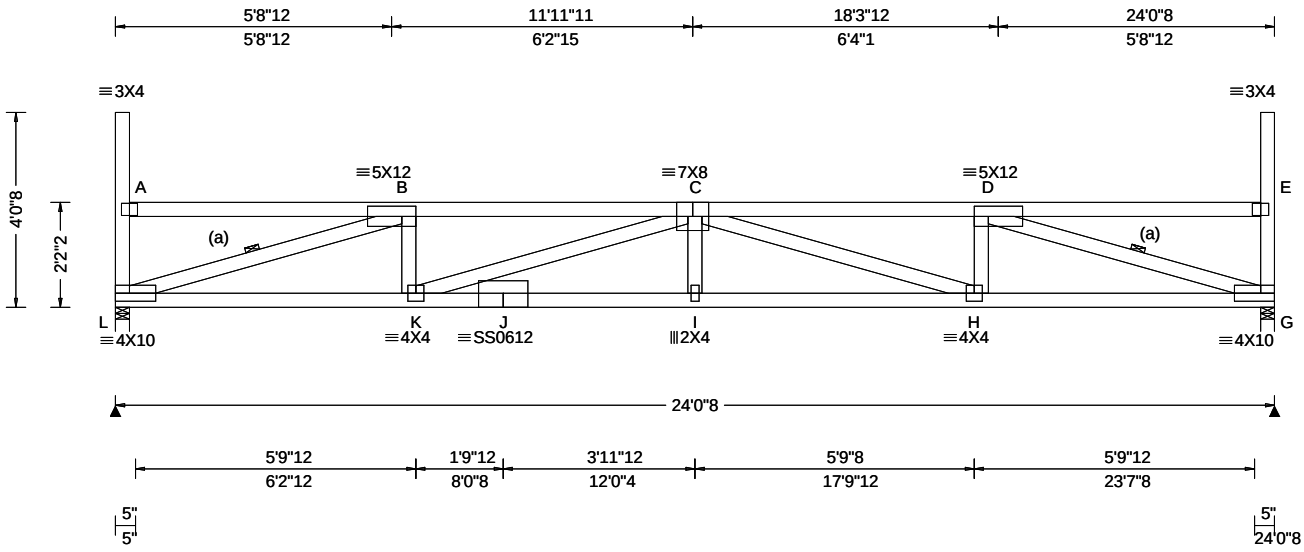
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36730 / FLAT FROM:	Ply: 1 Qty: 11	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T35	Cust: R 9316 JRef:1XfO93160002 T156 DrwNo: 139.22.0903.14883 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.346 I	833	360
VERT(CL):	0.643 I	448	240
HORZ(LL):	0.073 G	-	-
HORZ(TL):	0.136 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.679
Max BC CSI: 0.683
Max Web CSI: 0.833

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/80	/135
G	1541	/-	/-	/732	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	225	- 3982	C - D	225	- 3981

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3864	- 350	I - H	5103	- 291
K - J	5103	- 291	H - G	3864	- 194
J - I	5103	- 291			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	225	- 4000	C - H	134	- 1180
B - K	768	- 1	H - D	767	- 1
K - C	135	- 1179	D - G	225	- 3999

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.35" DL: 0.30". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

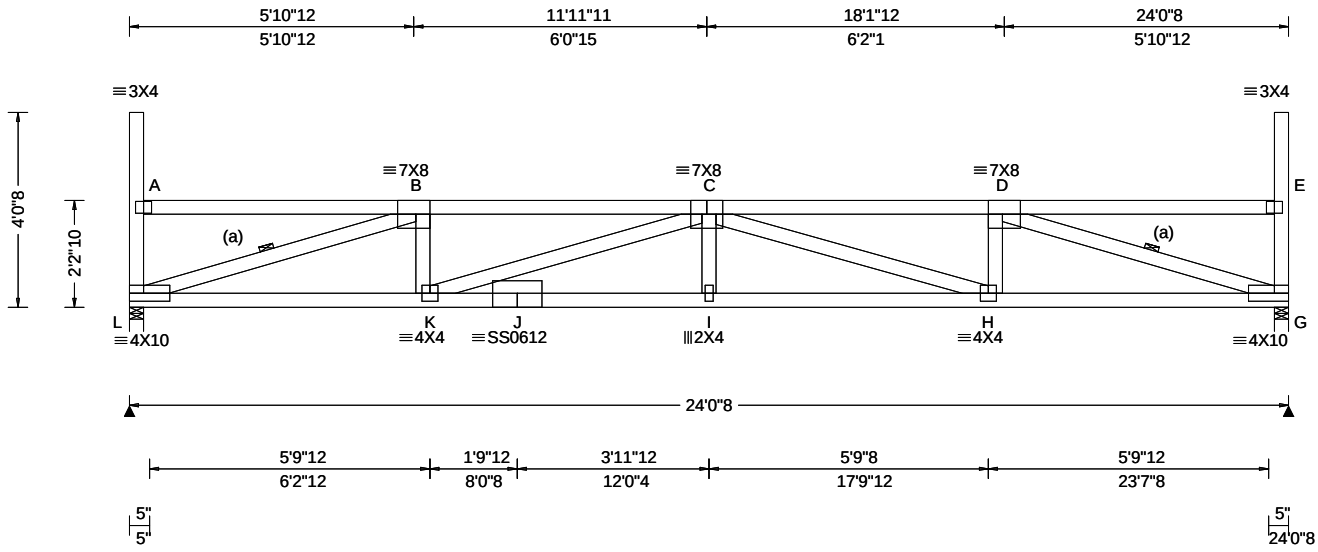
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36731 / FLAT FROM:	Ply: 1 Qty: 11	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T36	Cust: R 9316 JRef:1XfO93160002 T152 DrwNo: 139.22.0903.13275 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.332 I	868	360
VERT(CL):	0.617 I	467	240
HORZ(LL):	0.072 G	-	-
HORZ(TL):	0.134 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.656
Max BC CSI: 0.673
Max Web CSI: 0.820

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/80	/134
G	1541	/-	/-	/732	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	221	-3898	C - D	221	-3897

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3783	-344	I - H	4994	-287
K - J	4994	-287	H - G	3782	-192
J - I	4994	-287			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	221	-3924	C - H	131	-1156
B - K	768	-1	H - D	767	-1
K - C	132	-1155	D - G	221	-3923

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.82	29.72	4.79
23.75	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

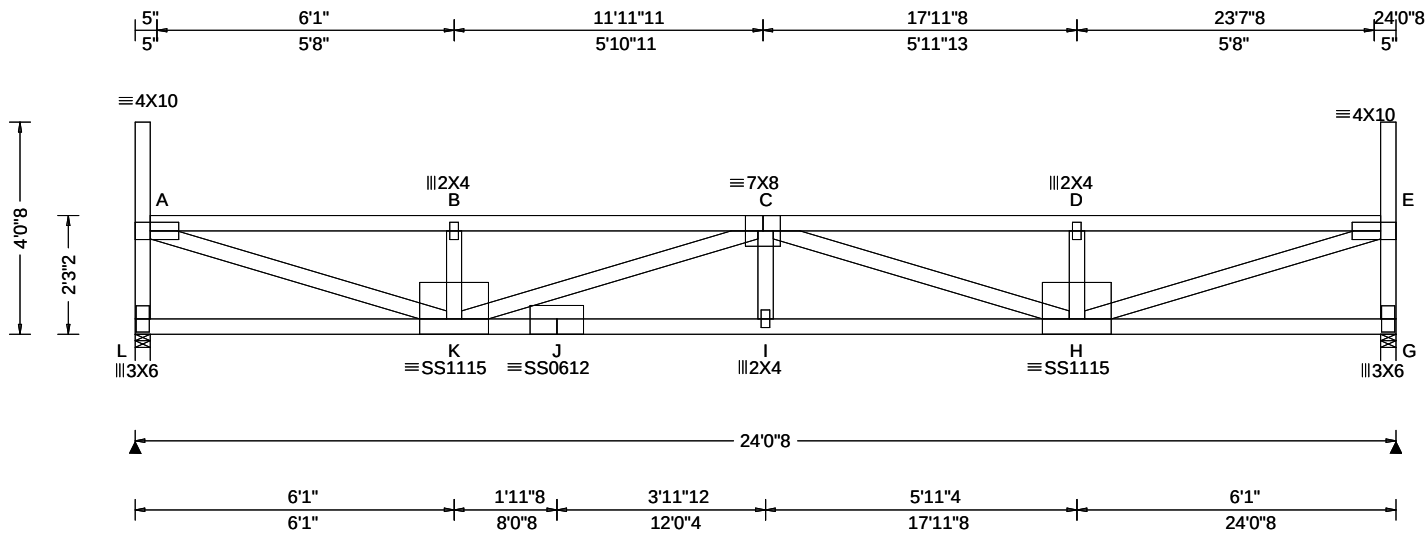
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36732 / FLAT FROM:	Ply: 1 Qty: 11	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T37	Cust: R 9316 JRef:1XfO93160002 T160 DrwNo: 139.22.0903.12771 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.336 I	859	360
VERT(CL):	0.624 I	462	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.101 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.869
Max BC CSI: 0.662
Max Web CSI: 0.945

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/80	/133
G	1541	/-	/-	/732	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	199	- 3791	C - D	198	- 3785
B - C	198	- 3786	D - E	198	- 3790

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4892	- 281	I - H	4892	- 281
J - I	4892	- 281			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	- 1381	C - H	123	- 1166
A - K	3851	- 220	H - E	3850	- 221
K - C	127	- 1165	E - G	94	- 1380

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.78	28.34	5.03
23.75	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

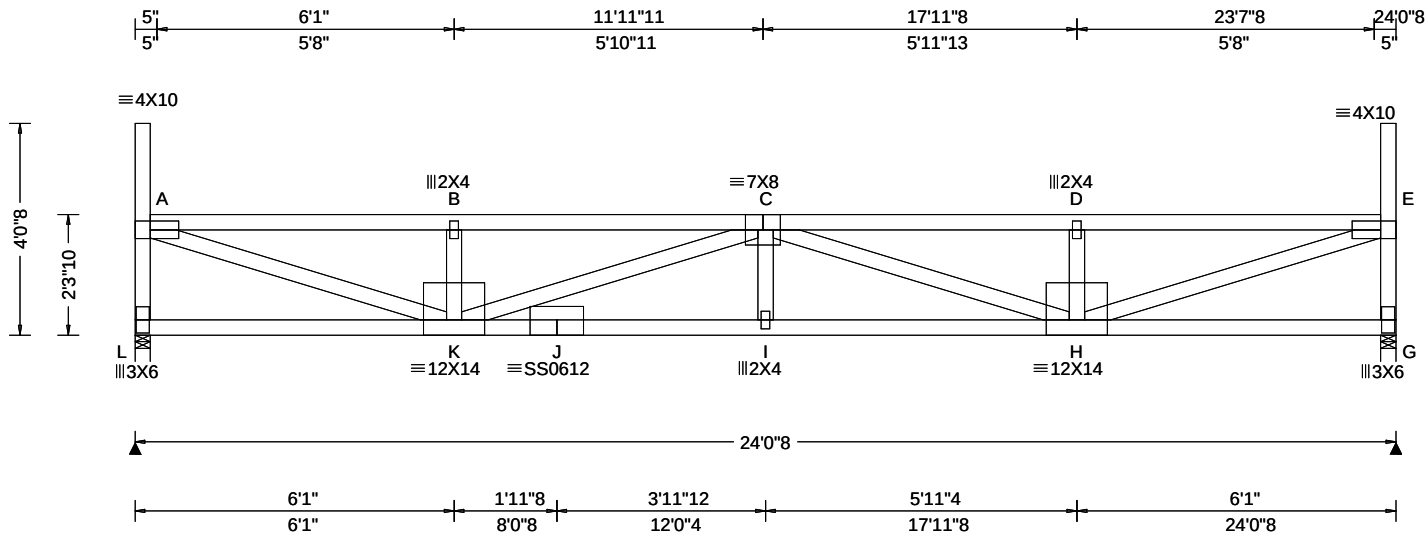
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36733 / FLAT FROM:	Ply: 1 Qty: 11	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T38	Cust: R 9316 JRef:1XfO93160002 T162 DrwNo: 139.22.0903.10759 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.323 I	893	360
VERT(CL):	0.600 I	480	240
HORZ(LL):	0.053 A	-	-
HORZ(TL):	0.099 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.854
Max BC CSI: 0.652
Max Web CSI: 0.928

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/80	/132
G	1541	/-	/-	/732	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	195	- 3715	C - D	194	- 3709
B - C	194	- 3710	D - E	195	- 3714

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4792	- 275	I - H	4792	- 275
J - I	4792	- 275			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	- 1381	C - H	112	- 1143
A - K	3781	- 216	H - E	3780	- 217
K - C	115	- 1142	E - G	94	- 1381

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.74	26.95	5.28
23.75	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

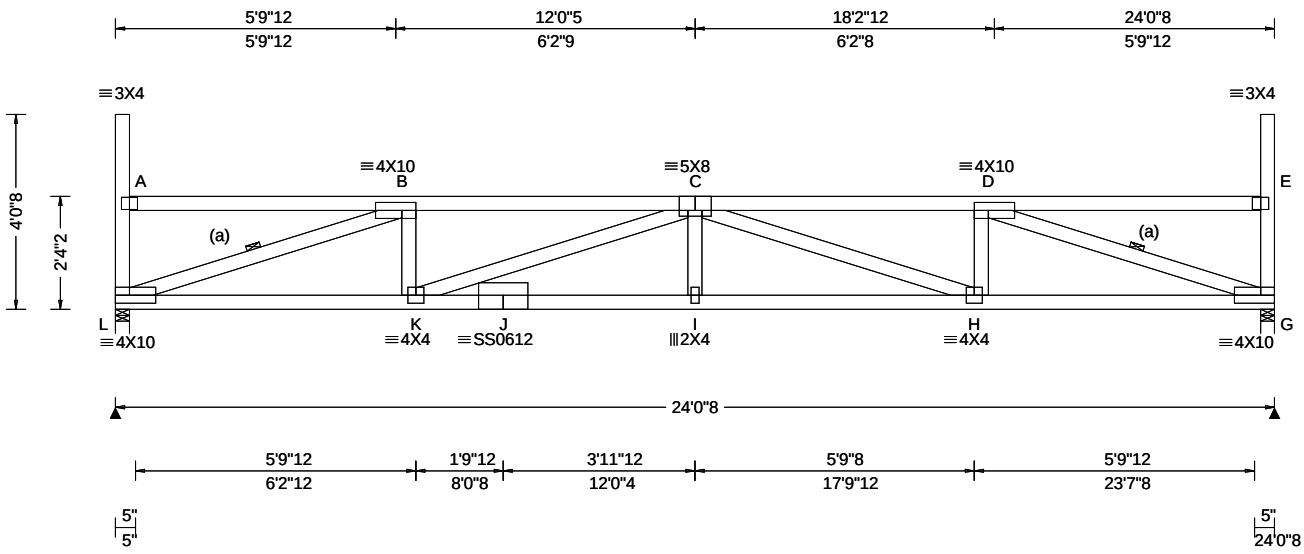
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36734 / FLAT FROM:	Ply: 1 Qty: 11	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T39	Cust: R 9316 JRef:1XfO93160002 T158 DrwNo: 139.22.0903.10865 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.296 I	976	360
VERT(CL):	0.549 I	525	240
HORZ(LL):	0.068 G	-	-
HORZ(TL):	0.126 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.598
Max BC CSI: 0.650
Max Web CSI: 0.783

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/81	/131
G	1542	/-	/-	/732	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	188	-3671	C - D	189	-3670

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3563	-308	I - H	4703	-276
K - J	4703	-276	H - G	3562	-187
J - I	4703	-276			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	212	-3721	C - H	115	-1096
B - K	769	0	H - D	769	0
K - C	116	-1095	D - G	211	-3719

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.70	25.57	5.57
23.75	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

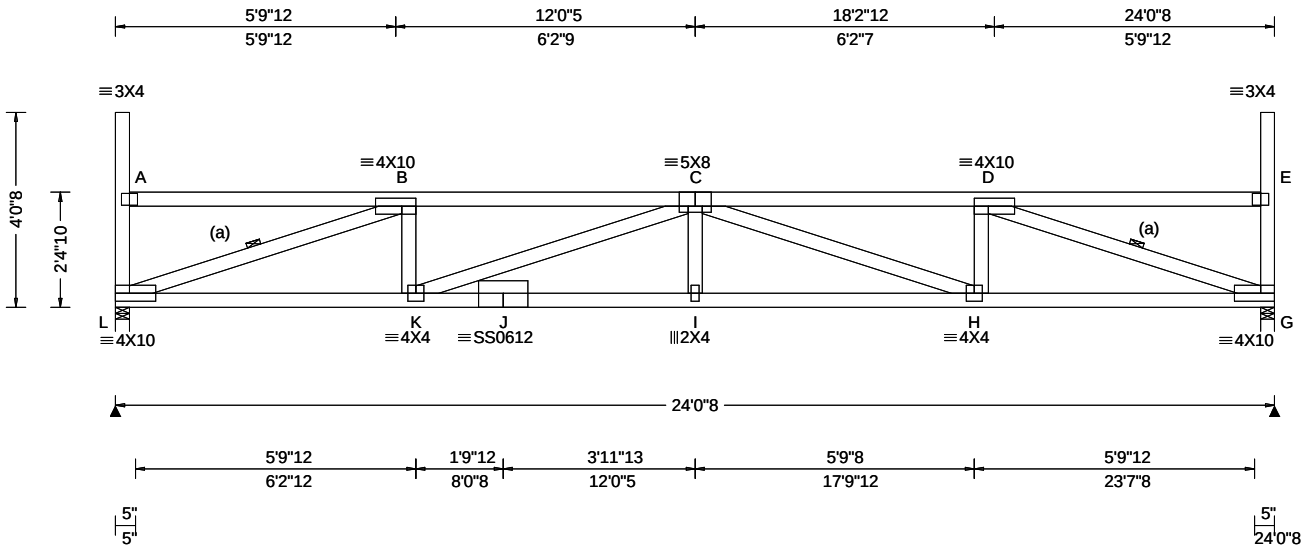
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36735 / FLAT FROM:	Ply: 1 Qty: 11	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T40	Cust: R 9316 JRef:1XfO93160002 T155 DrwNo: 139.22.0903.14818 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.285 I	999	360
VERT(CL):	0.529 I	545	240
HORZ(LL):	0.066 G	-	-
HORZ(TL):	0.123 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.583
Max BC CSI: 0.643
Max Web CSI: 0.772

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/81	/129
G	1542	/-	/-	/732	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	185	-3600	C - D	185	-3598

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3494	-304	I - H	4611	-272
K - J	4611	-272	H - G	3492	-185
J - I	4611	-272			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	208	-3657	C - H	112	-1077
B - K	769	0	H - D	769	0
K - C	114	-1075	D - G	208	-3655

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

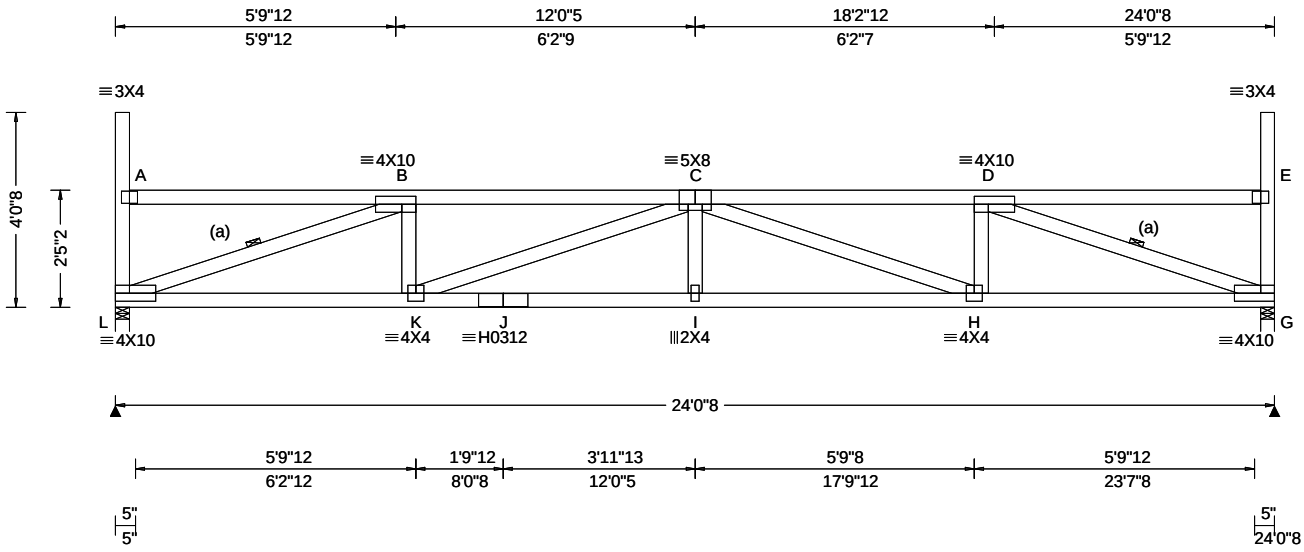
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36736 / FLAT FROM:	Ply: 1 Qty: 11	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T41	Cust: R 9316 JRef:1XfO93160002 T151 DrwNo: 139.22.0903.13832 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.274 I	999	360
VERT(CL):	0.510 I	565	240
HORZ(LL):	0.065 G	-	-
HORZ(TL):	0.121 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.568
Max BC CSI: 0.637
Max Web CSI: 0.761

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/81	/128
G	1542	/-	/-	/732	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	182	- 3531	C - D	182	- 3530

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3427	- 299	I - H	4522	- 268
K - J	4522	- 268	H - G	3426	- 184
J - I	4522	- 268			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	205	- 3595	C - H	110	- 1058
B - K	769	0	H - D	769	0
K - C	111	- 1056	D - G	205	- 3594

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

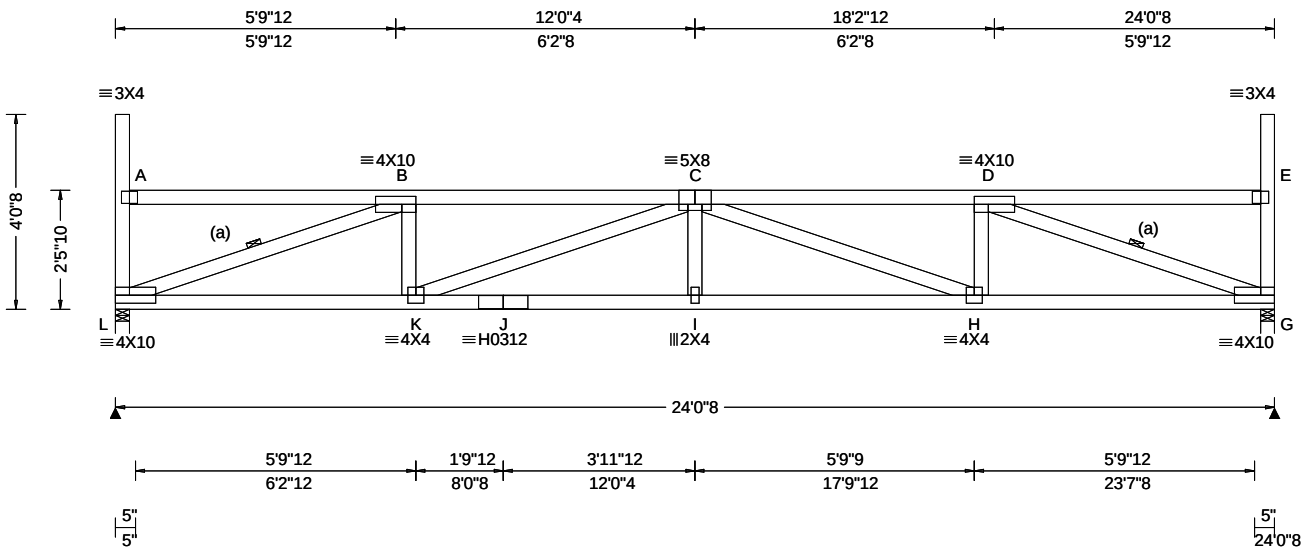
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36737 / FLAT FROM:	Ply: 1 Qty: 11	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T42	Cust: R 9316 JRef:1XfO93160002 T164 DrwNo: 139.22.0903.10892 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.265 I	999	360
VERT(CL):	0.492 I	586	240
HORZ(LL):	0.064 G	-	-
HORZ(TL):	0.119 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.553
Max BC CSI: 0.631
Max Web CSI: 0.751

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/81	/127
G	1542	/-	/-	/732	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	179	-3465	C - D	179	-3464

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3363	-294	I - H	4437	-265
K - J	4437	-265	H - G	3362	-182
J - I	4437	-265			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	202	-3536	C - H	108	-1039
B - K	769	0	H - D	769	0
K - C	109	-1038	D - G	201	-3535

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.57	21.42	5.16
23.75	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

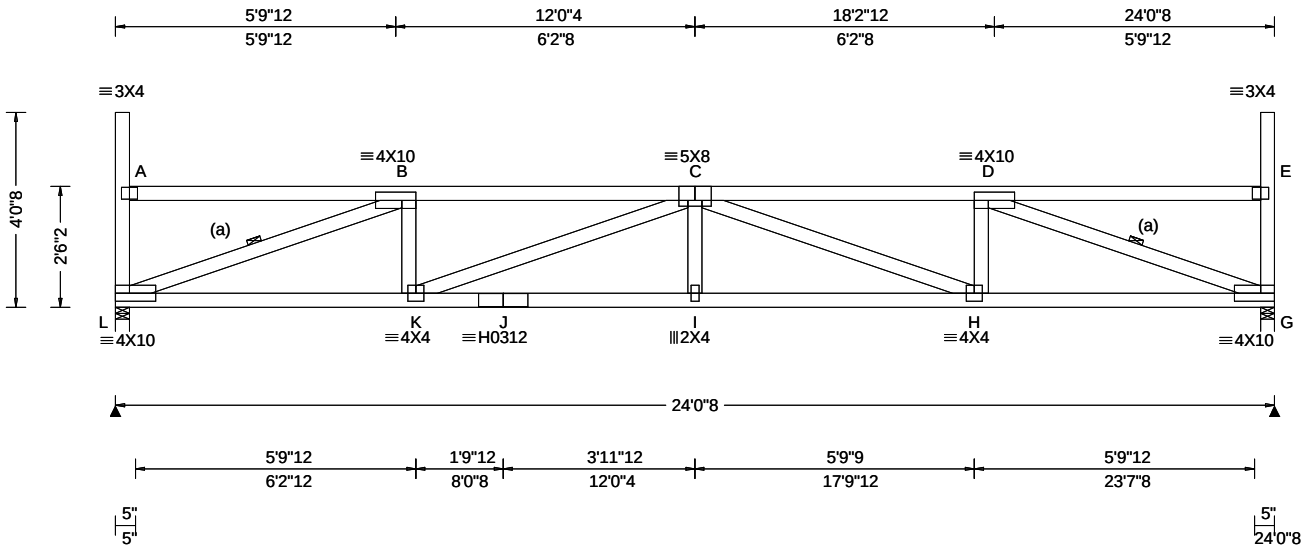
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36738 / FLAT FROM:	Ply: 1 Qty: 11	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T43	Cust: R 9316 JRef:1XfO93160002 T161 DrwNo: 139.22.0903.10622 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.255 I	999	360
VERT(CL):	0.475 I	607	240
HORZ(LL):	0.063 G	-	-
HORZ(TL):	0.116 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.540
Max BC CSI: 0.625
Max Web CSI: 0.741

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/81	/126
G	1542	/-	/-	/731	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	176	-3401	C - D	177	-3400

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3301	-289	I - H	4354	-261
K - J	4354	-261	H - G	3300	-180
J - I	4354	-261			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	199	-3479	C - H	105	-1022
B - K	769	0	H - D	769	0
K - C	106	-1021	D - G	198	-3478

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.53	20.04	4.83
23.75	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

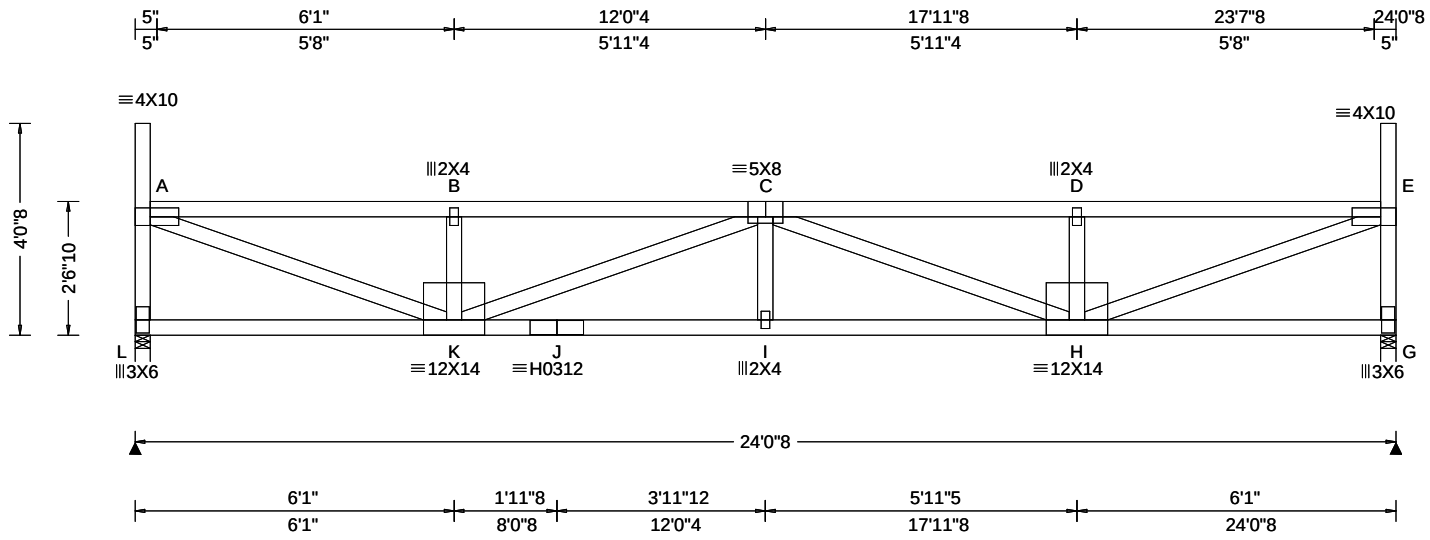
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36739 / FLAT FROM:	Ply: 1 Qty: 11	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T44	Cust: R 9316 JRef:1XfO93160002 T143 DrwNo: 139.22.0903.15061 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.260	I	999	360
VERT(CL): 0.482	I	597	240
HORZ(LL): 0.048	A	-	-
HORZ(TL): 0.089	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.693
Max BC CSI: 0.608
Max Web CSI: 0.838

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/82	/125
G	1542	/-	/-	/731	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	178	- 3318	C - D	177	- 3312
B - C	177	- 3313	D - E	178	- 3317

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4276	- 256	I - H	4276	- 256
J - I	4276	- 256			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	96	- 1385	C - H	99	- 1032
A - K	3417	- 196	D - H	77	- 376
B - K	77	- 376	H - E	3416	- 197
K - C	102	- 1030	E - G	96	- 1385

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.49	18.65	4.50
23.75	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

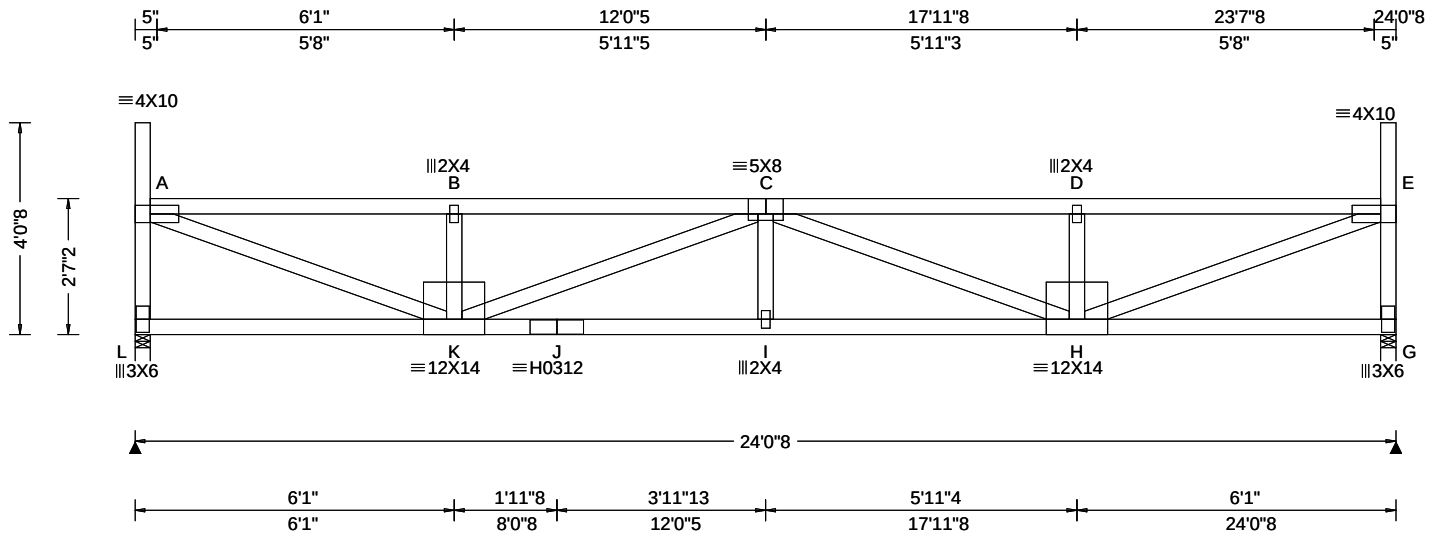
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36740 / FLAT FROM:	Ply: 1 Qty: 11	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T45	Cust: R 9316 JRef:1XfO93160002 T153 DrwNo: 139.22.0903.10155 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.251	I	999	360
VERT(CL): 0.466	I	618	240
HORZ(LL): 0.047	A	-	-
HORZ(TL): 0.088	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.676
Max BC CSI: 0.602
Max Web CSI: 0.825

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/82	/124
G	1542	/-	/-	/731	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	175	- 3260	C - D	174	- 3253
B - C	175	- 3255	D - E	175	- 3258

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4200	- 253	I - H	4200	- 253
J - I	4200	- 253			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	96	- 1385	C - H	97	- 1015
A - K	3364	- 193	D - H	77	- 378
B - K	77	- 378	H - E	3362	- 194
K - C	100	- 1013	E - G	96	- 1385

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.45	17.27	4.16
23.75	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

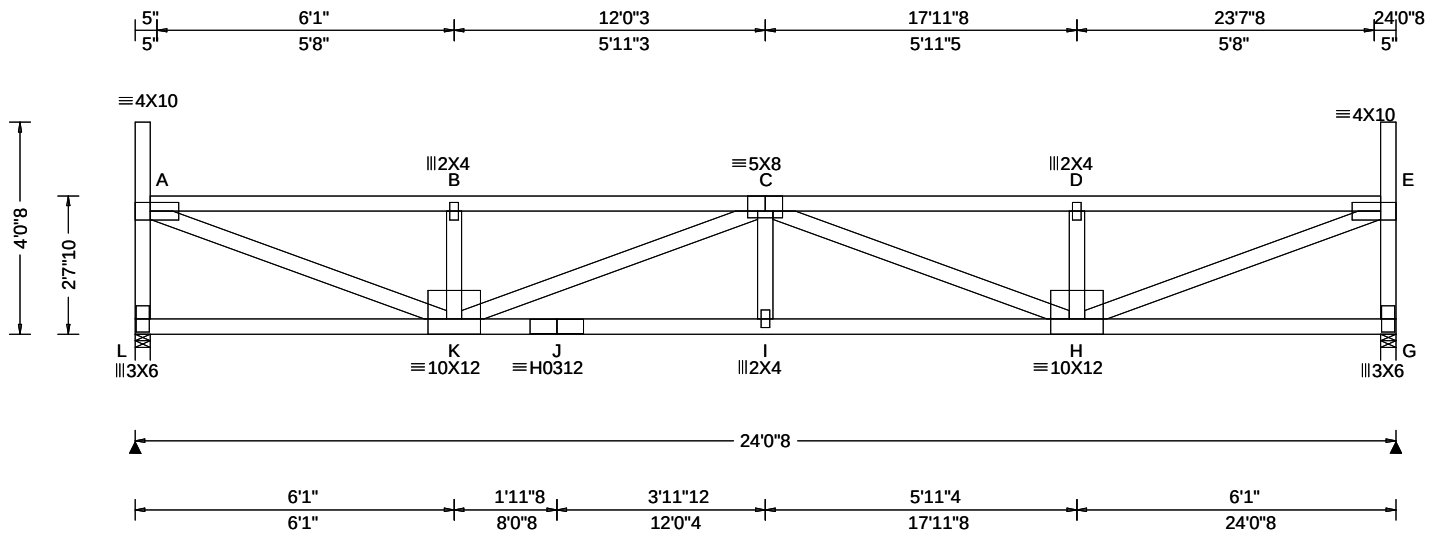
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36741 / FLAT FROM:	Ply: 1 Qty: 11	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T46	Cust: R 9316 JRef:1XfO93160002 T148 DrwNo: 139.22.0903.09710 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.243 I	999	360
VERT(CL):	0.451 I	639	240
HORZ(LL):	0.046 A	-	-
HORZ(TL):	0.086 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.663
Max BC CSI: 0.597
Max Web CSI: 0.813

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/82	/122
G	1542	/-	/-	/731	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	173	- 3203	C - D	172	- 3197
B - C	172	- 3198	D - E	172	- 3202

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4125	- 249	I - H	4125	- 249
J - I	4125	- 249			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	96	- 1385	C - H	95	- 997
A - K	3311	- 190	H - E	3311	- 191
B - K	77	- 380	D - H	77	- 380
K - C	97	- 997	E - G	96	- 1385

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.41	15.89	3.83
23.75	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

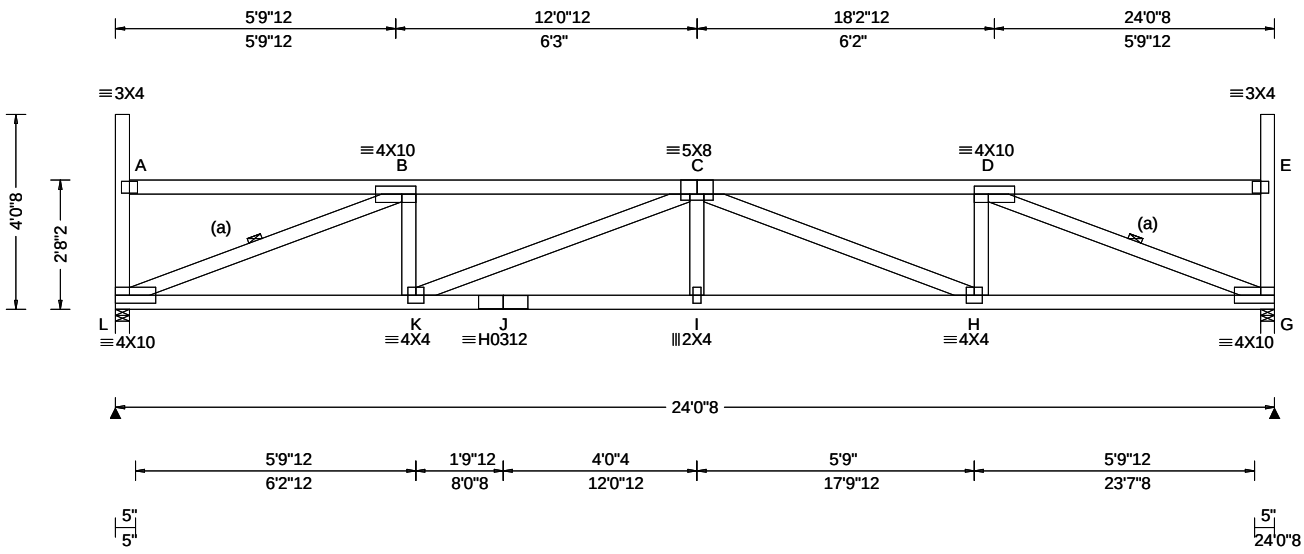
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36742 / FLAT FROM:	Ply: 1 Qty: 11	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T47	Cust: R 9316 JRef:1XfO93160002 T163 DrwNo: 139.22.0903.09876 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.223 I	999	360
VERT(CL):	0.415 I	694	240
HORZ(LL):	0.058 G	-	-
HORZ(TL):	0.108 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.516
Max BC CSI: 0.604
Max Web CSI: 0.706

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/82	/121
G	1542	/-	/-	/731	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	166	- 3169	C - D	166	- 3166

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3076	- 272	I - H	4053	- 248
K - J	4053	- 248	H - G	3073	- 173
J - I	4053	- 248			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	188	- 3274	C - H	96	- 960
B - K	768	0	H - D	770	0
K - C	98	- 955	D - G	187	- 3270

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.22" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

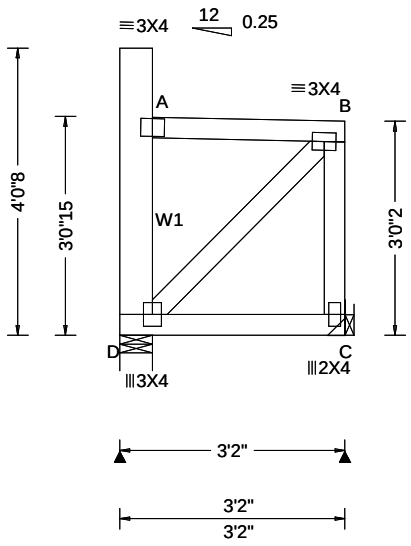
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36743 / MONO FROM:	Ply: 1 Qty: 14	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48	Cust: R 9316 JRef:1XfO93160002 T139 DrwNo: 139.22.0903.13862 / NDW 05/19/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.04 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.001 B 999 240 HORZ(LL): 0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.139 Max BC CSI: 0.123 Max Web CSI: 0.028 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	176	/-	/-	/111	/52	/78
C	204	/-	/-	/149	/46	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

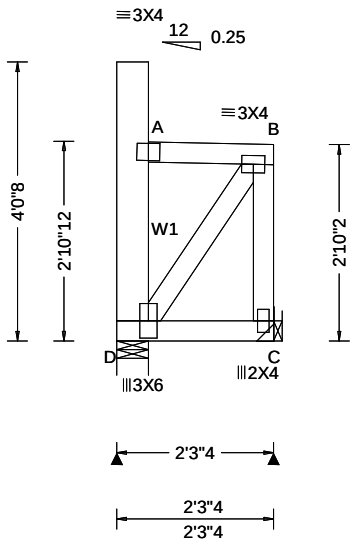
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36745 / MONO FROM:	Ply: 1 Qty: 52	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T49	Cust: R 9316 JRef:1XfO93160002 T230 DrwNo: 139.22.0903.10885 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.87 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.065
Max BC CSI: 0.063
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	119	/-	/-	/98	/77	/80
C	144	/-	/-	/147	/60	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

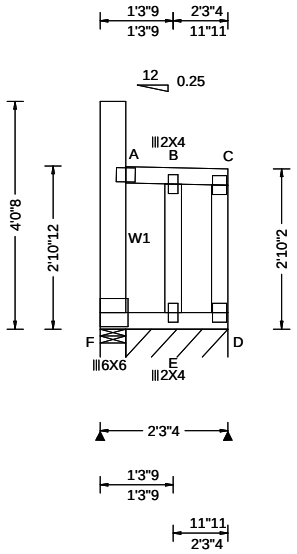
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36746 / MONO FROM:	Ply: 1 Qty: 13	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T50	Cust: R 9316 JRef:1XfO93160002 T128 DrwNo: 139.22.0903.10440 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.87 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.006 A	999	360
VERT(CL):	0.008 A	999	240
HORZ(LL):	0.111 B	-	-
HORZ(TL):	0.128 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.110
Max BC CSI: 0.254
Max Web CSI: 0.115

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	36	/-8	/-	/96	/138	/80
D*	139	/-	/-	/141	/57	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 21.7 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

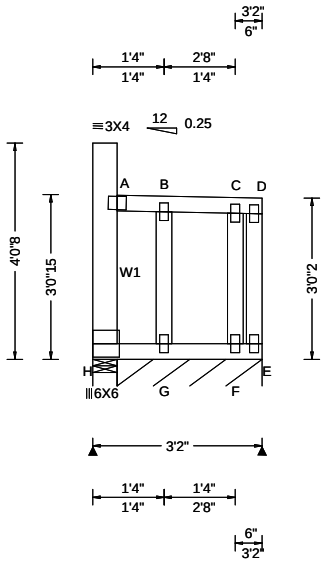
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36747 / GABL FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T51	Cust: R 9316 JRef:1XfO93160002 T114 DrwNo: 139.22.0903.12777 / NDW 05/19/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.007 A 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.009 A 999 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.121 C - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.142 B - -
NCBCLL: 0.00	Mean Height: 22.04 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.087
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.243
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.109
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 29.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	47	/-	/-	/122	/130	/90
E*	123	/-	/-	/106	/43	/-

Wind reactions based on MWFRS
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 32.5 Min Req = -
Bearings H & H are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

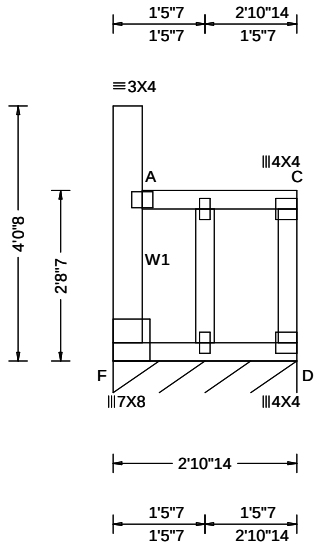
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36748 / GABL FROM:	Ply: 1 Qty: 11	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T52	Cust: R 9316 JRef:1XfO93160002 T15 / DrwNo: 139.22.0903.10288 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.007 A	999	360
VERT(CL):	0.009 A	999	240
HORZ(LL):	0.115 A	-	-
HORZ(TL):	0.134 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.115
Max BC CSI: 0.323
Max Web CSI: 0.142

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	119	/-	/-	/56	/4	/32

Wind reactions based on MWFRS
D Brg Wid = 34.9 Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.34	13.63	2.45

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

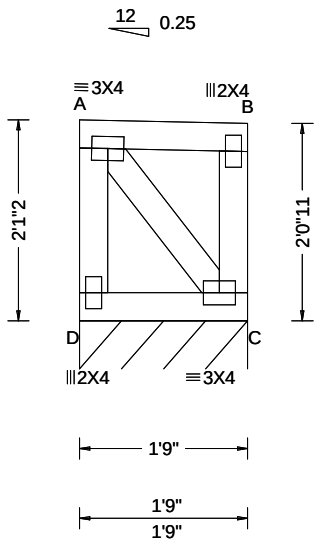
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36752 / MONO FROM:	Ply: 1 Qty: 26	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE01	Cust: R 9316 JRef:1XfO93160002 T188 DrwNo: 139.22.0903.18039 / NDW 05/19/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.08 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.039 Max Web CSI: 0.021 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 21.0 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

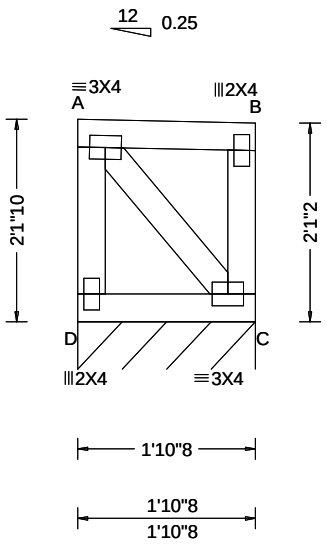
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36753 / MONO FROM:	Ply: 1 Qty: 26	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE02	Cust: R 9316 JRef:1XfO93160002 T189 DrwNo: 139.22.0903.17303 / NDW 05/19/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.000 B - -
NCBCLL: 0.00	Mean Height: 21.12 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.046
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.022
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/18

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

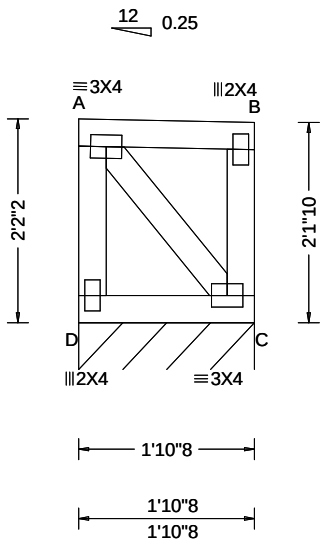
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36754 / MONO FROM:	Ply: 1 Qty: 26	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE03	Cust: R 9316 JRef:1XfO93160002 T190 DrwNo: 139.22.0903.18840 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.16 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.023

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

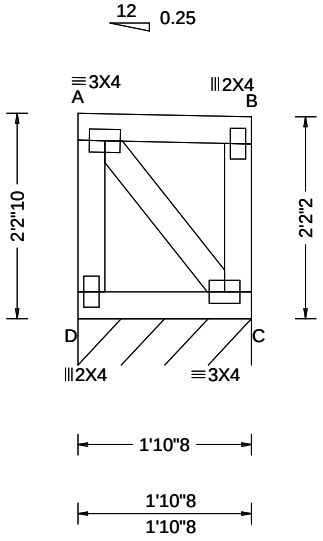
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36755 / MONO FROM:	Ply: 1 Qty: 26	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE04	Cust: R 9316 JRef:1XfO93160002 T192 DrwNo: 139.22.0903.18899 / NDW 05/19/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.20 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.024 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

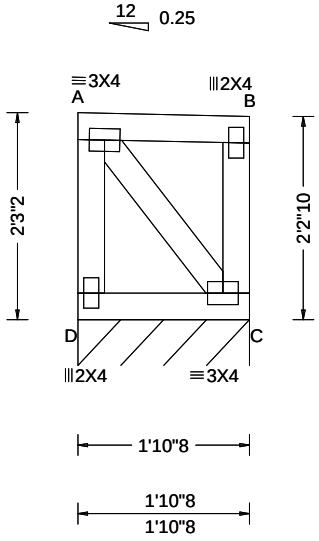
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36756 / MONO FROM:	Ply: 1 Qty: 26	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE05	Cust: R 9316 JRef:1XfO93160002 T215 DrwNo: 139.22.0903.10698 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.24 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.025

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

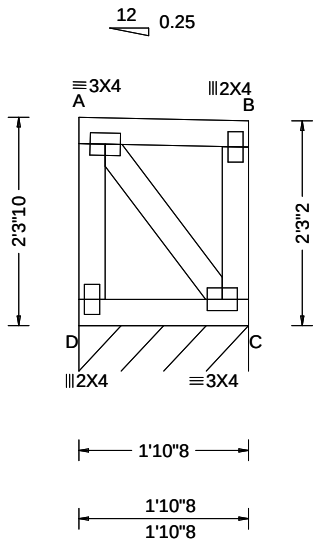
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36757 / MONO FROM:	Ply: 1 Qty: 26	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE06	Cust: R 9316 JRef:1XfO93160002 T219 DrwNo: 139.22.0903.10479 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.28 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.026

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

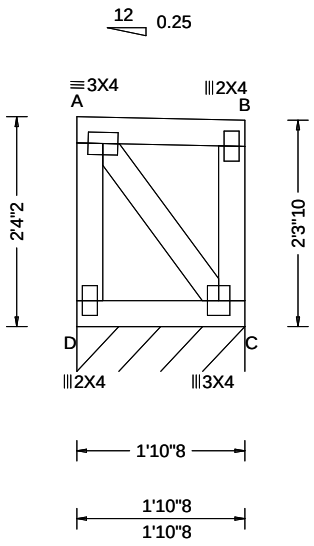
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36758 / MONO FROM:	Ply: 1 Qty: 26	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE07	Cust: R 9316 JRef:1XfO93160002 T220 DrwNo: 139.22.0903.09687 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.32 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.027

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

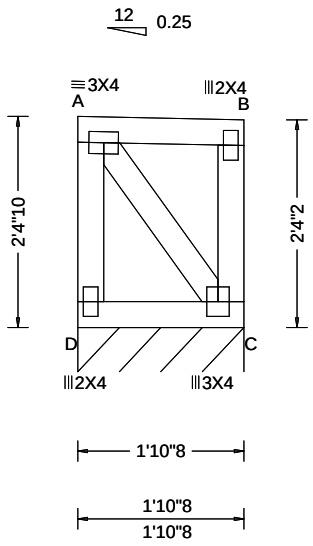
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36759 / MONO FROM:	Ply: 1 Qty: 26	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE08	Cust: R 9316 JRef:1XfO93160002 T221 DrwNo: 139.22.0903.19250 / NDW 05/19/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.028 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

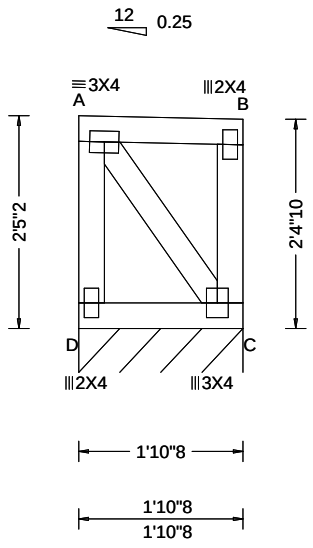
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36760 / MONO FROM:	Ply: 1 Qty: 26	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE09	Cust: R 9316 JRef:1XfO93160002 T222 DrwNo: 139.22.0903.17397 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.41 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.029

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

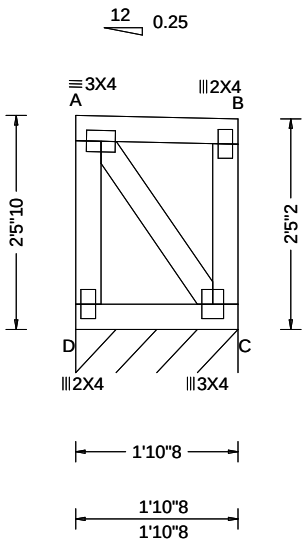
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36761 / MONO FROM:	Ply: 1 Qty: 26	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE10	Cust: R 9316 JRef:1XfO93160002 T223 DrwNo: 139.22.0903.15651 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.45 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.031

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

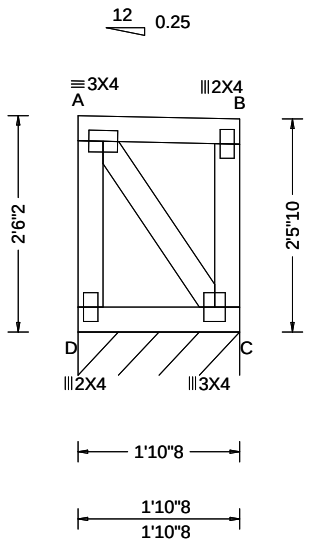
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36762 / MONO FROM:	Ply: 1 Qty: 26	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE11	Cust: R 9316 JRef:1XfO93160002 T224 DrwNo: 139.22.0903.12985 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.49 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.032

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

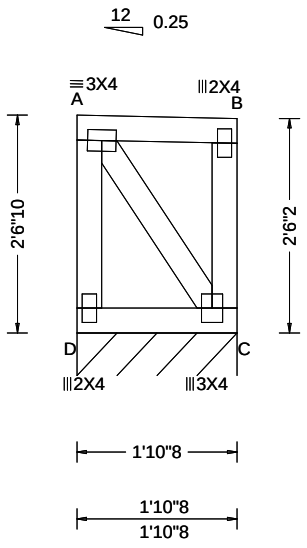
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36763 / MONO FROM:	Ply: 1 Qty: 26	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE12	Cust: R 9316 JRef:1XfO93160002 T225 DrwNo: 139.22.0903.10525 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.033

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

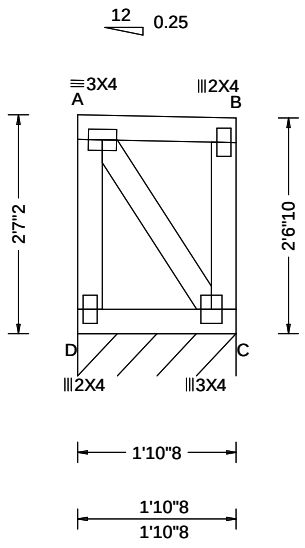
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36764 / MONO FROM:	Ply: 1 Qty: 26	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE13	Cust: R 9316 JRef:1XfO93160002 T226 DrwNo: 139.22.0903.09852 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.57 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.035

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

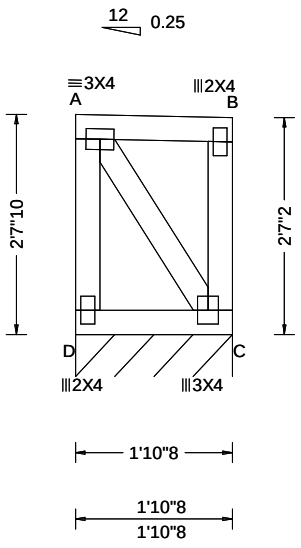
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36765 / MONO FROM:	Ply: 1 Qty: 26	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE14	Cust: R 9316 JRef:1XfO93160002 T227 DrwNo: 139.22.0903.10758 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.62 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.036

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

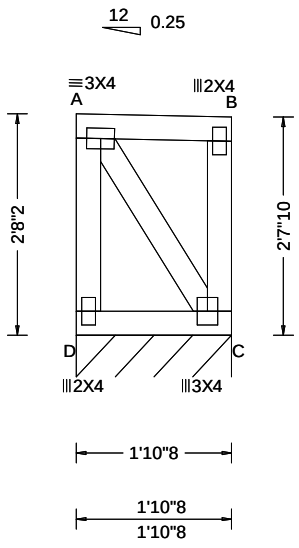
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36766 / MONO FROM:	Ply: 1 Qty: 26	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE15	Cust: R 9316 JRef:1XfO93160002 T228 DrwNo: 139.22.0903.13912 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.66 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.037

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

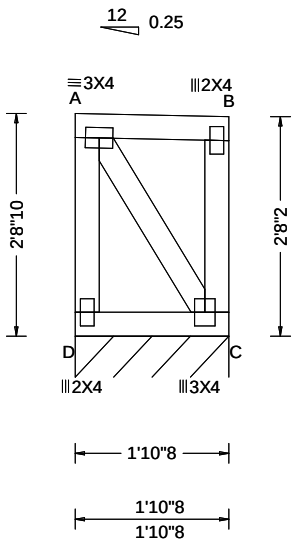
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36767 / MONO FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE16	Cust: R 9316 JRef:1XfO93160002 T231 DrwNo: 139.22.0903.09804 / NDW 05/19/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -
NCBCLL: 0.00	Mean Height: 22.37 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.046
Spacing: 24.0 "	MWFRS Parallel Dist: > 2h	Rep Fac: Yes	Max Web CSI: 0.038
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 29.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

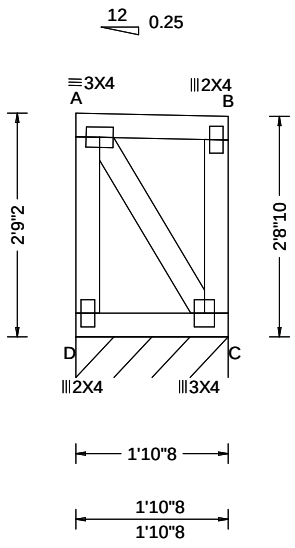
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36768 / MONO FROM:	Ply: 1 Qty: 18	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE17	Cust: R 9316 JRef:1XfO93160002 T251 DrwNo: 139.22.0903.12144 / NDW 05/19/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.74 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.040 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

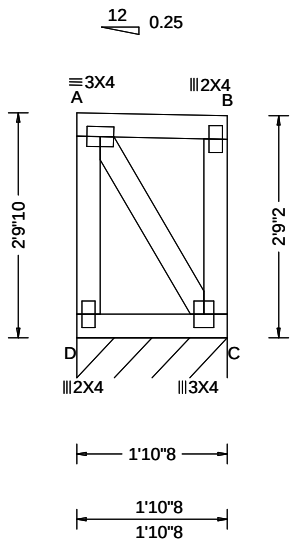
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36769 / MONO FROM:	Ply: 1 Qty: 18	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE18	Cust: R 9316 JRef:1XfO93160002 T252 DrwNo: 139.22.0903.10978 / NDW 05/19/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.78 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

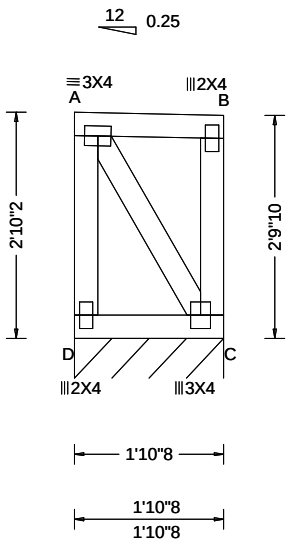
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36770 / MONO FROM:	Ply: 1 Qty: 18	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE19	Cust: R 9316 JRef:1XfO93160002 T253 DrwNo: 139.22.0903.10618 / NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.82 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

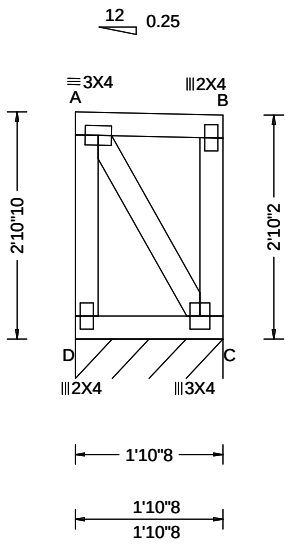
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36771 / MONO FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE20	Cust: R 9316 JRef:1XfO93160002 T254 DrwNo: 139.22.0903.09728 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.001 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.044

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/27

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

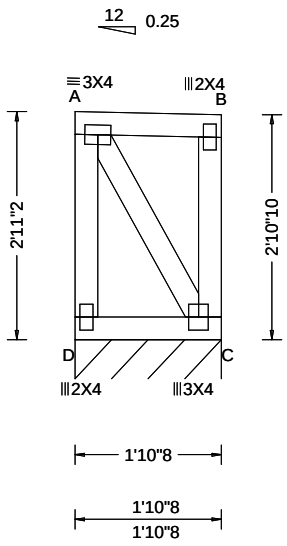
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36772 / MONO FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE21	Cust: R 9316 JRef:1XfO93160002 T255 DrwNo: 139.22.0903.10921 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.57 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.001 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.046

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

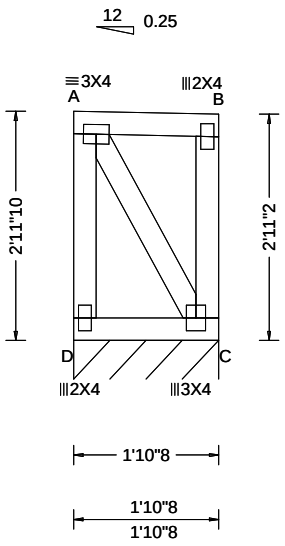
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36773 / MONO FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE22	Cust: R 9316 JRef:1XfO93160002 T256 DrwNo: 139.22.0903.17050 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.95 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.001 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.047

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

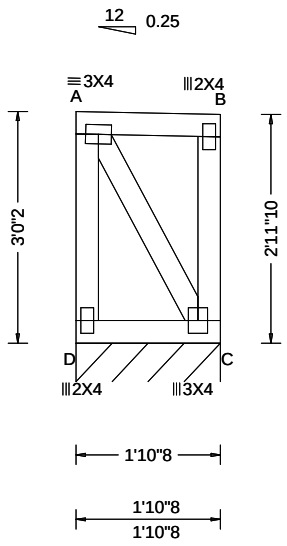
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36774 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE23	Cust: R 9316 JRef:1XfO93160002 T257 DrwNo: 139.22.0903.15108 / NDW 05/19/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.049 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/29

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

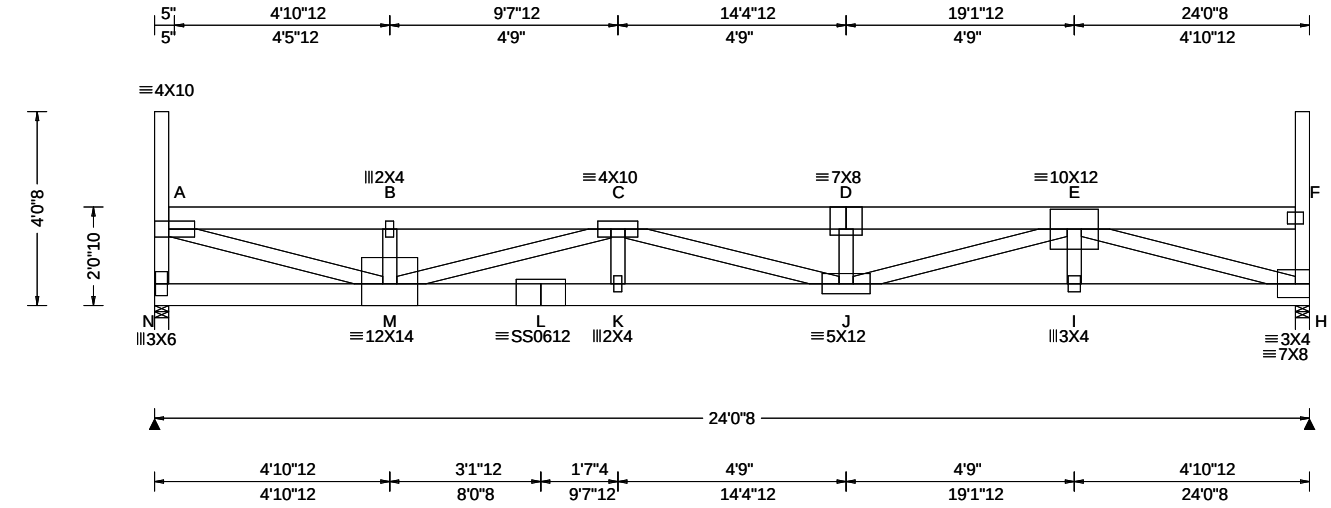
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36780 / FLAT FROM:	Ply: 2 Qty: 11	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T32	Cust: R 9316 JRef:1XfO93160002 T25 / DrwNo: 139.22.0903.14181 / NDW 05/19/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.258	D	999	360
VERT(CL): 0.479	D	601	240
HORZ(LL): 0.039	H	-	-
HORZ(TL): 0.073	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.228
Max BC CSI: 0.646
Max Web CSI: 0.891

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	2493	/-	/-	/-	/397	/-
H	2484	/-	/-	/-	/387	/-

Wind reactions based on MWFRS
N Brg Wid = 3.5 Min Req = 2.0 (Truss)
H Brg Wid = 3.5 Min Req = 1.9 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	520	- 3179	C - D	755	- 4648
B - C	519	- 3171	D - E	755	- 4648

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	4648	- 761	J - I	3156	- 506
L - K	4648	- 761	I - H	3156	- 506
K - J	4648	- 761			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	176	- 1116	J - E	1573	- 263
A - M	3202	- 525	E - H	525	- 3276
M - C	256	- 1558			

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 23.75
BC: From 60 plf at 0.00 to 60 plf at 24.04
BC: 173 lb Conc. Load at 1.98, 3.98, 7.98, 9.98 11.98,13.98,21.98
BC: 170 lb Conc. Load at 5.98,15.98,17.98,19.98

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.99	34.38	4.14
23.75	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

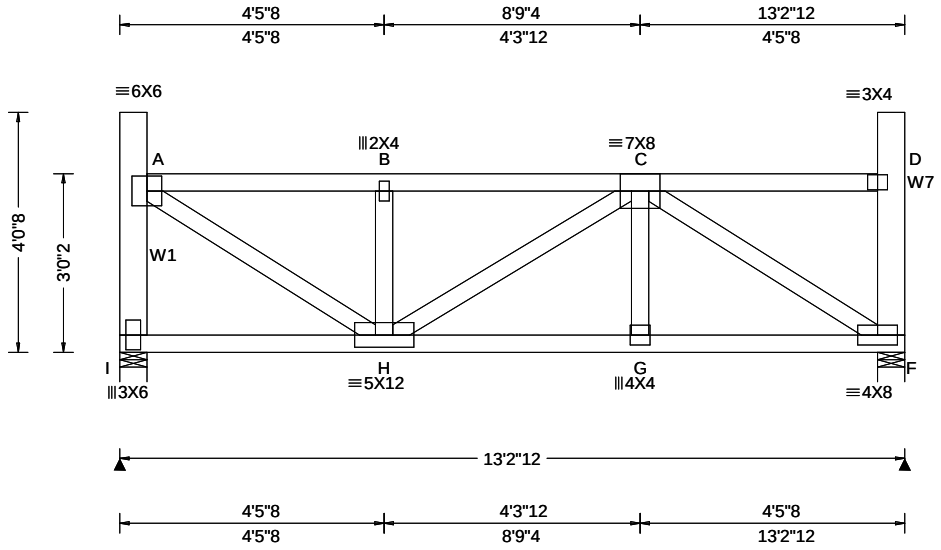
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36776 / FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T09	Cust: R 9316 JRef:1XfO93160002 T14 DrwNo: 139.22.0903.19917 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.038 B	999	360
VERT(CL):	0.071 B	999	240
HORZ(LL):	0.012 A	-	-
HORZ(TL):	0.022 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.313
Max BC CSI: 0.556
Max Web CSI: 0.834

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	1464	/-	/-	/-	/155	/-
F	1371	/-	/-	/-	/118	/-

Wind reactions based on MWFRS
I Brg Wid = 5.5 Min Req = 1.9 (Truss)
F Brg Wid = 5.5 Min Req = 1.7 (Truss)
Bearings I & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	174	-1777	B - C	173	-1772

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	1747	-143	G - F	1747	-143

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - A	109	-1164	C - G	699	-44
A - H	1928	-186	C - F	162	-1991

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 60 plf at 0.00 to 60 plf at 13.23
BC: 204 lb Conc. Load at 1.17, 3.17, 5.17,11.17
BC: 183 lb Conc. Load at 7.17, 9.17

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

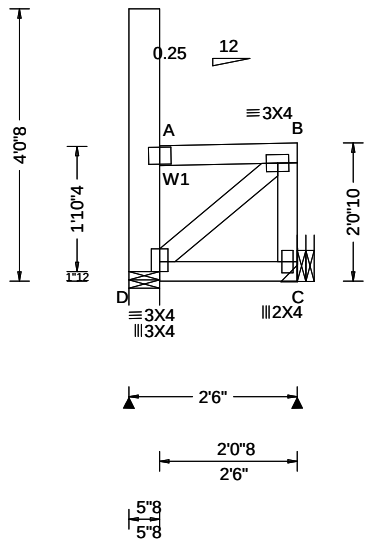
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36701 / MONO FROM: JRQ	Ply: 1 Qty: 75	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02A	Cust: R 9316 JRef:1XfO93160002 T26 / DrwNo: 139.22.0903.10243 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.102
Max BC CSI: 0.079
Max Web CSI: 0.106

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	122	/-	/-	/98	/75	/61
C	170	/-	/-	/144	/55	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

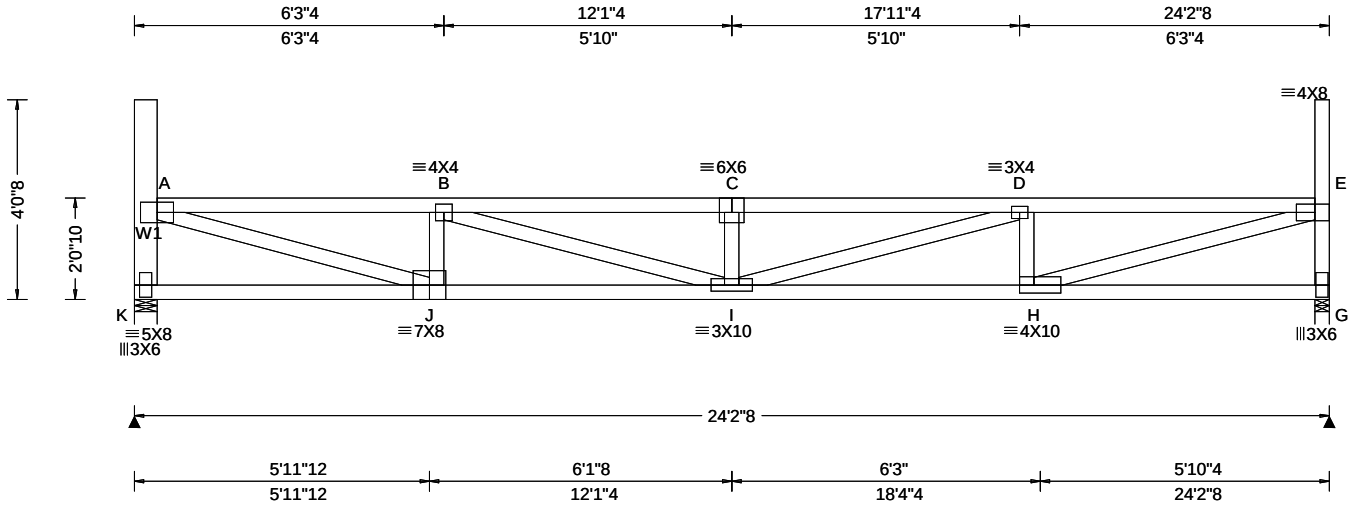
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36779 FLAT FROM: JRQ	Ply: 2 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T16	Cust: R 9316 JRef:1XfO93160002 T18 DrwNo: 139.22.0943.38500 / NDW 05/19/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.268 C	999	360
VERT(CL):	0.499 C	581	240
HORZ(LL):	0.039 A	-	-
HORZ(TL):	0.073 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.426
Max BC CSI: 0.963
Max Web CSI: 0.610

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1718	/-	/-	/-	/346	/-
G	1781	/-	/-	/-	/361	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 1.5 (Truss)
G Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	505	- 2434	C - D	683	- 3221
B - C	683	- 3221	D - E	525	- 2462

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	2479	- 512	I - H	2505	- 531

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	149	- 745	I - D	747	- 159
A - J	2406	- 499	H - E	2484	- 531
B - I	775	- 179	E - G	156	- 762

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 35 plf at 0.46 to 35 plf at 23.92
BC: From 30 plf at 0.00 to 30 plf at 22.06
BC: From 60 plf at 22.06 to 60 plf at 24.21
BC: 170 lb Conc. Load at 2.06, 4.06, 6.06, 8.06 10.06,18.06
BC: 173 lb Conc. Load at 12.06,14.06,16.06,20.06 22.06

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.99	34.38	4.14
23.92	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Additional Notes

Truss must be installed as shown with top chord up.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

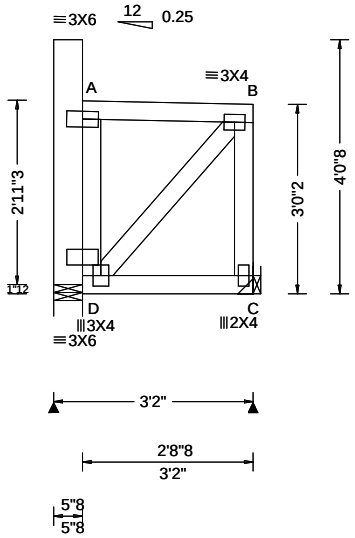
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36744 / MONO FROM:	Ply: 1 Qty: 16	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48A	Cust: R 9316 JRef:1XfO93160002 T13 / DrwNo: 139.22.0903.19716 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.04 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	D	999	360
VERT(CL): 0.001	D	999	240
HORZ(LL): 0.000	C	-	-
HORZ(TL): 0.000	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.120
Max BC CSI: 0.103
Max Web CSI: 0.023

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	170	/-	/-	/79	/9	/1
C	183	/-	/-	/85	/7	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11938.37" if used)

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

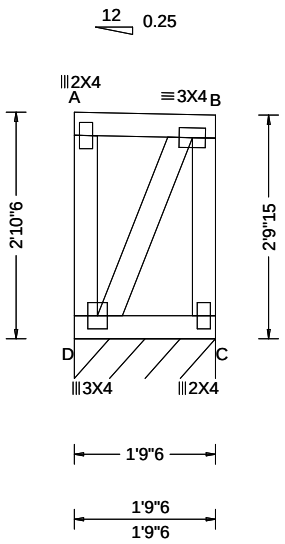
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36750 MONO FROM: JRQ	Ply: 1 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T54	Cust: R 9316 JRef:1XfO93160002 T20 DrwNo: 139.22.0944.15207 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.99 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	-0.001 A	-	-
HORZ(TL):	0.001 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.048
Max BC CSI: 0.041
Max Web CSI: 0.041

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 21.4 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

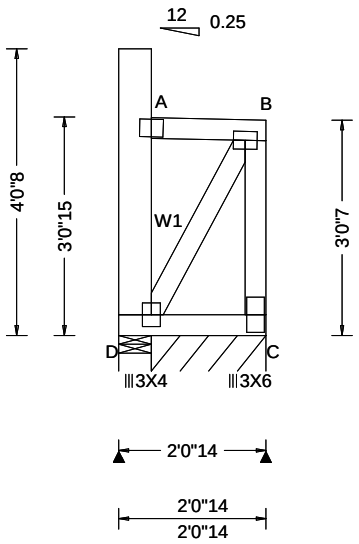
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36751 GABL FROM: JRQ	Ply: 1 Qty: 2	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T55	Cust: R 9316 JRef:1XfO93160002 T17 DrwNo: 139.22.0944.24893 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.001	D	999	360
VERT(CL): -0.001	D	999	240
HORZ(LL): 0.003	A	-	-
HORZ(TL): 0.003	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.048
Max Web CSI: 0.059

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	119	/-	/-	/135	/102	/89
C*	73	/-	/-	/98	/54	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = 19.4 Min Req = -
Bearings D & D are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

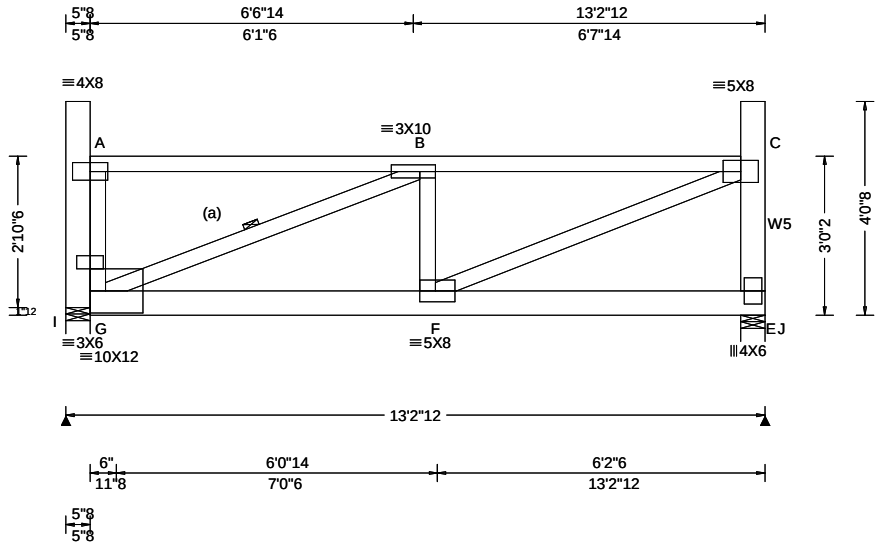
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36777 / MONO FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T09A	Cust: R 9316 JRef:1XfO93160002 T30 / DrwNo: 139.22.0903.19335 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.057 F	999	360
VERT(CL):	0.106 F	999	240
HORZ(LL):	0.008 A	-	-
HORZ(TL):	0.015 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.779
Max BC CSI: 0.649
Max Web CSI: 0.515

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	1427	/-	/-	/-	/68	/-
J	1317	/-	/-	/-	/88	/-

Wind reactions based on MWFRS
I Brg Wid = 5.5 Min Req = 1.5 (Support)
J Brg Wid = 5.5 Min Req = 2.1 (Truss)
Bearings I & J are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	109	- 2065

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	2023	- 108

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	1257	- 57	F - C	2100	- 108
G - A	68	- 1429	C - E	54	- 1009
G - B	114	- 2134			

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W5 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 12.31
BC: From 60 plf at 0.00 to 60 plf at 12.77
BC: 183 lb Conc. Load at 0.71, 2.71, 4.71, 6.71 8.71
BC: 204 lb Conc. Load at 10.71

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Blocking
Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11970.89" if used)

Additional Notes
Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

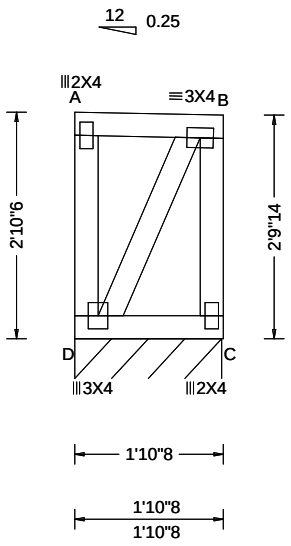
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36749 / MONO FROM: JRQ	Ply: 1 Qty: 1	**Job Number:** JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T53	Cust: R 9316 JRef:1XfO93160002 T8 / DrwNo: 139.22.0903.19297 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.99 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	-0.000 A	-	-
HORZ(TL):	0.001 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	131	/-	/-	/61	/6	/27

Wind reactions based on MWFRS
D Brg Wid = 22.2 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

Gable Stud Reinforcement Detail

ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
				Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" o.c.	SPF HF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"
16" o.c.	SPF HF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

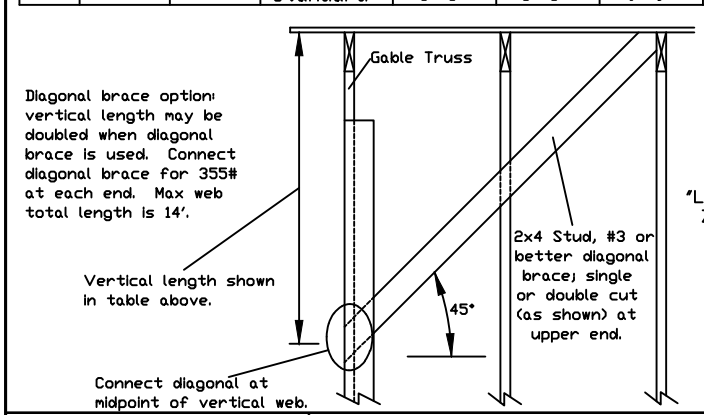
Attach 'L' braces with 10d (0.128"x3.0" min) nails.

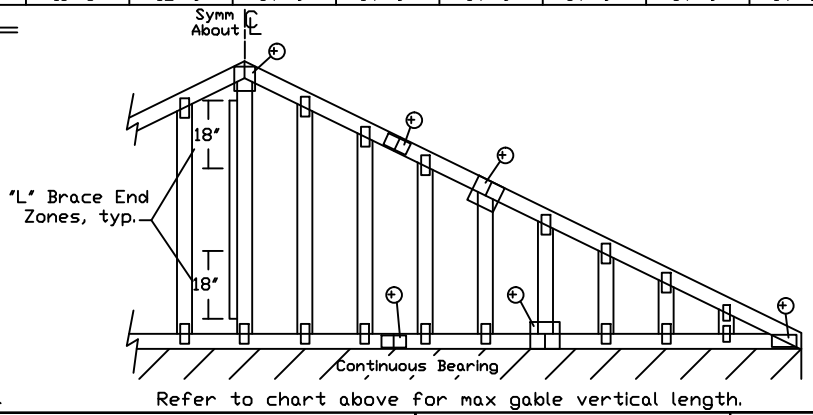
* For (1) 'L' brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) 'L' braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

'L' bracing must be a minimum of 80% of web member length.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 355# at each end. Max web total length is 14'.





Refer to chart above for max gable vertical length.

Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-16-GAB11530
DATE	01/26/2018
DRWG	A11530ENC160118

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforecement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

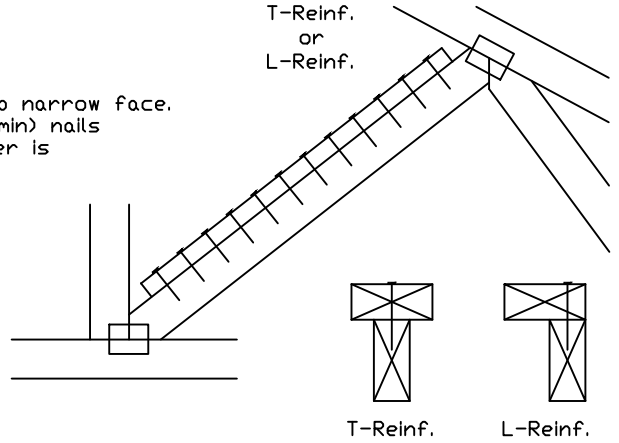
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

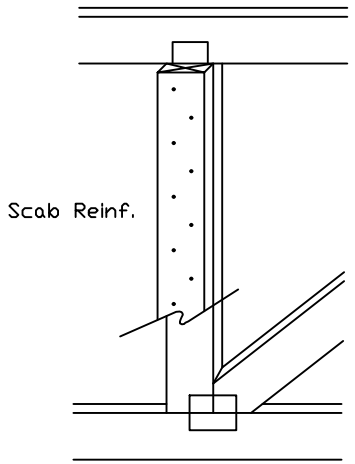
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL	PSF	
TC DL	PSF	
BC DL	PSF	
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

REF	CLR Subst.
DATE	01/02/19
DRWG	BRCLBSUB0119

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

05/19/2022

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C
Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail for lumber, plates, and other information not shown on this detail.

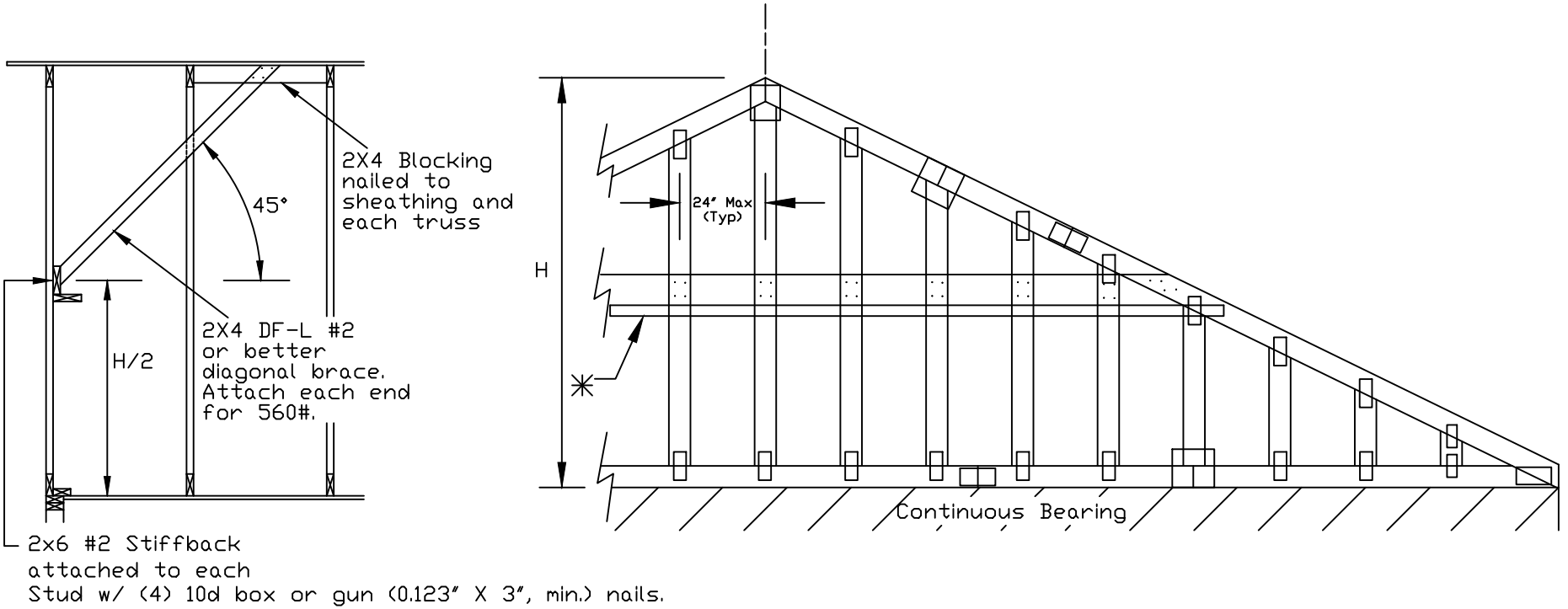
Nails: 10d box or gun (0.128"x3",min) nails.

H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback to roof diaphragm every 6'0" (see detail below or refer to DRWG A12030ENC160118).

H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace to roof diaphragm every 4'0" (see detail below or refer to DRWG A12030ENC160118).

✳ Optional 2x L-reinforcement attached to stiffback with 10d box or gun (0.128" x 3", min.) nails @ 6" o.c.



****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

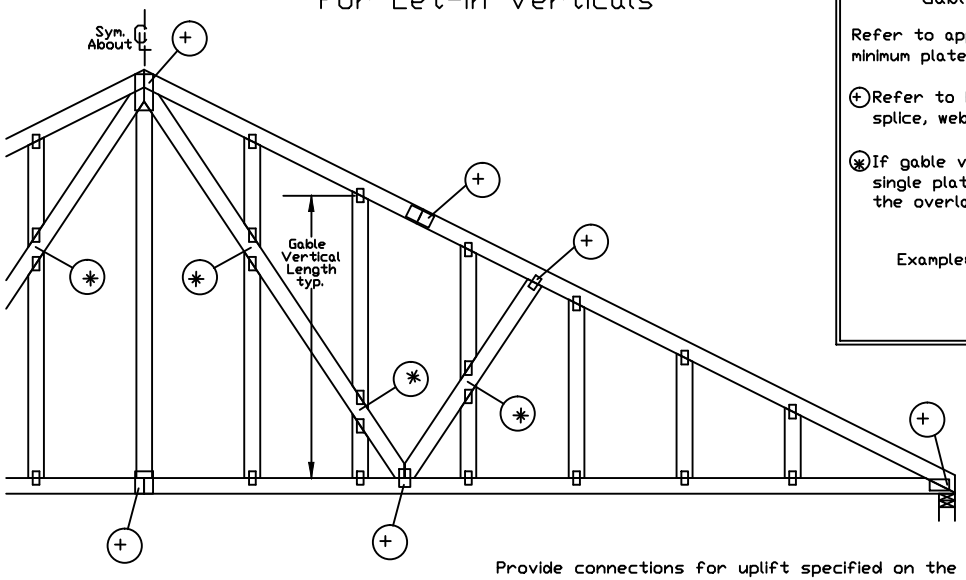
ALPINE® ITW COMPANY

MAX. TOT. LD. 60 PSF

MAX. SPACING

REF	GE WHALER
DATE	01/02/2018
DRWG	GABRST160118

Gable Detail
For Let-in Verticals



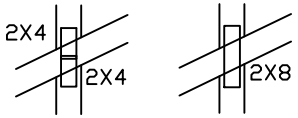
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

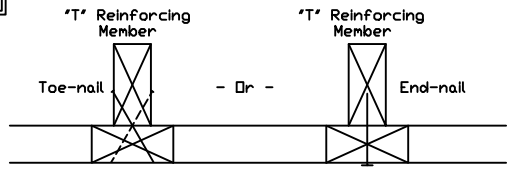
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊛ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



"T" Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:
10d Common (0.148"x 3",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

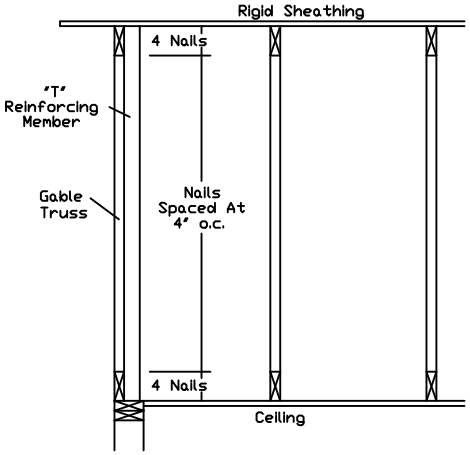
Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24"o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

MAX. TOT. LD. 60 PSF
DUR. FAC. ANY
MAX. SPACING 24.0"

REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118

ALPINE ITW COMPANY
Floor
2025

05/19/2022

Building 10

BOB D. CAMPBELL & CO., INC.

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 10 Truss	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Building 10

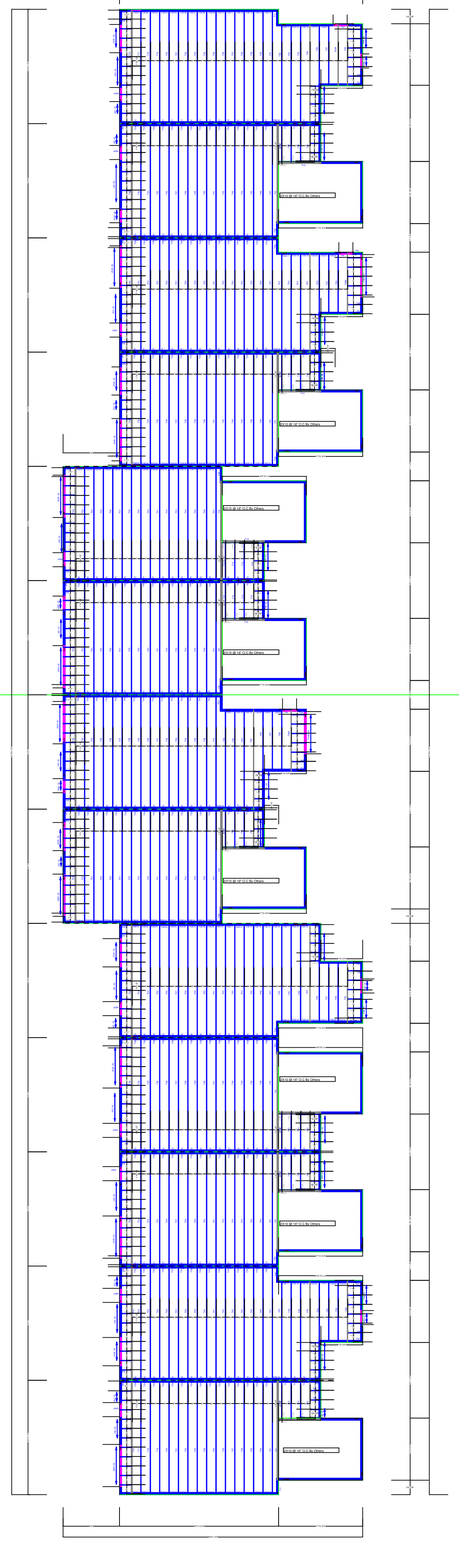
GROUP 10 ROOF LAYOUT

Total Truss Quantity = 1074

Total Plan Area with OHs = 14744 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
	= HUS26-2	9	
	= LUS24	255	Simpson



ROOF TRUSS LAYOUT (NTS)

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS.

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED: REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 BY: CB

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 6/6/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRi ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

Job Name: McCambridge Brothers Construction

Designer: Juan R Quiroz

Date: 5/13/2022

Reference #: JB-220694

mill Creek
3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-6108

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

Building 11

BOB D. CAMPBELL & CO., INC.

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 11 Truss	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

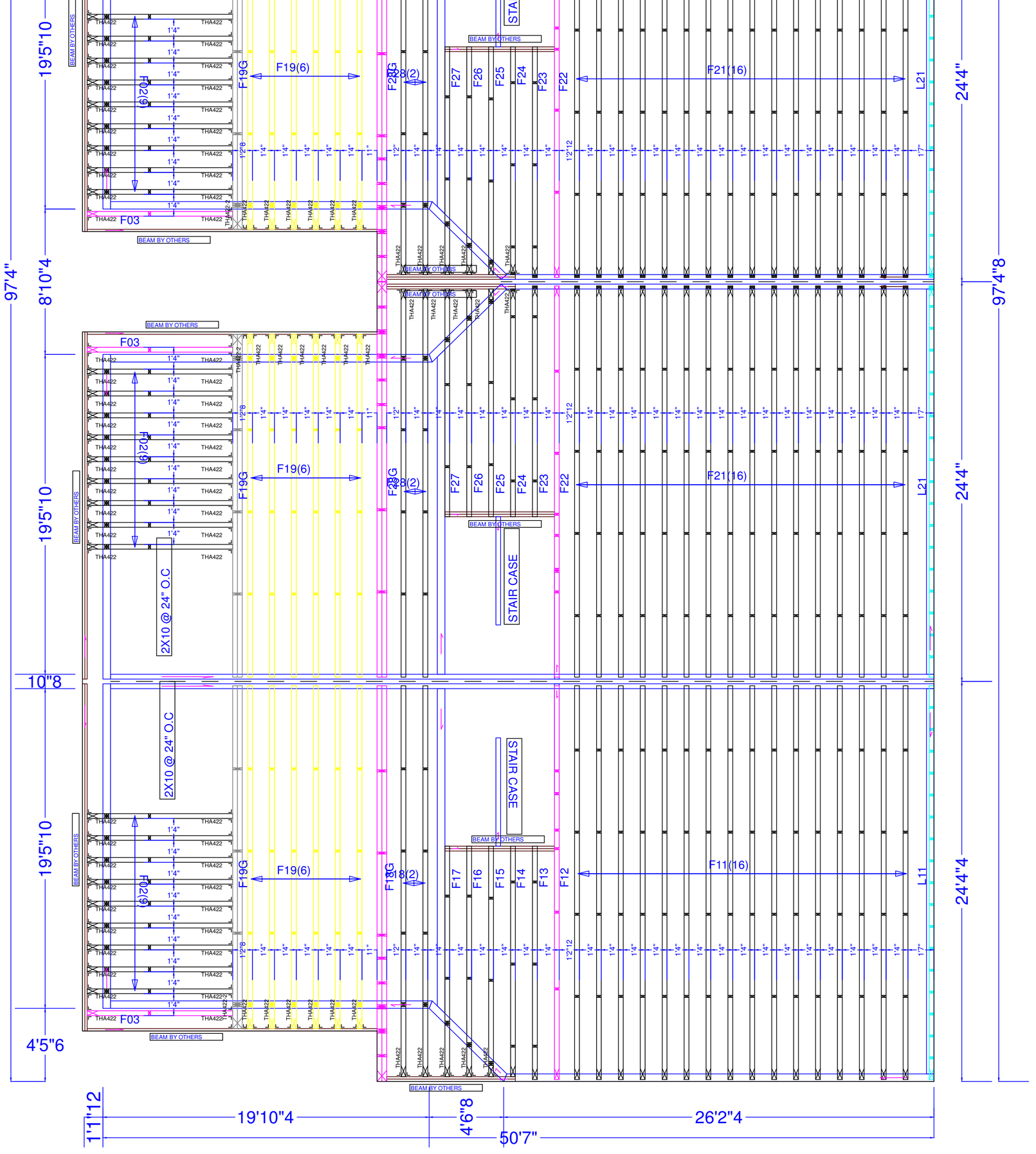
Group 11 Floor Layout

Total Truss Quantity = 180.

Total Plan Area with OHs = 4292 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
=	THA422	126	Simpson
=	THA422-2	4	Simpson



SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS.

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED, REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 BY: CB

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 6/6/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

mill Creek
3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-6108

Job Name: McCambridge Brothers Construction

Designer: Juan R Quiroz

Reference #: JB-220692

Date: 3/17/2022

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address:
2100 NW Lowenstein Dr
Lee's Summit
MO

Building 11

Alpine, an ITW company
514 Earth City Expressway
Suite 242
Earth City, MO 63045
Phone: (800)326-4102 (314)344-9121
alpineitw.com

03/17/2022

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 6/6/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRi ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED. REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 BY: CB

Site Information:	Page 1:
Customer: Mill Creek Truss	*Job Number:* JB-220692
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1XdX93160008
Wind Standard: ASCE716 *Wind Speed (mph):* 0 *Building Type:*	*Design Loading (psf):* 75.00

This package contains general notes pages, 24 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	076.22.1322.47094	F02
3	076.22.1322.49359	F11
5	076.22.1322.48644	F13
7	076.22.1322.48109	F15
9	076.22.1322.49575	F17
11	076.22.1322.49165	F18G
13	076.22.1322.49939	F19G
15	076.22.1322.49587	F22
17	076.22.1322.47157	F24
19	076.22.1322.47778	F26
21	076.22.1322.47743	F28
23	076.22.1322.48736	L11
25	CNSY42PL0118	
27	LSCSYX2A1014	

Item	Drawing Number	Truss
2	076.22.1322.48370	F03
4	076.22.1322.49923	F12
6	076.22.1322.47901	F14
8	076.22.1322.49301	F16
10	076.22.1322.47363	F18
12	076.22.1322.49959	F19
14	076.22.1322.46965	F21
16	076.22.1322.47915	F23
18	076.22.1322.48996	F25
20	076.22.1322.47209	F27
22	076.22.1322.46962	F28G
24	076.22.1322.49070	L21
26	DEFLCAMB1014	
28	STRBRIBR1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

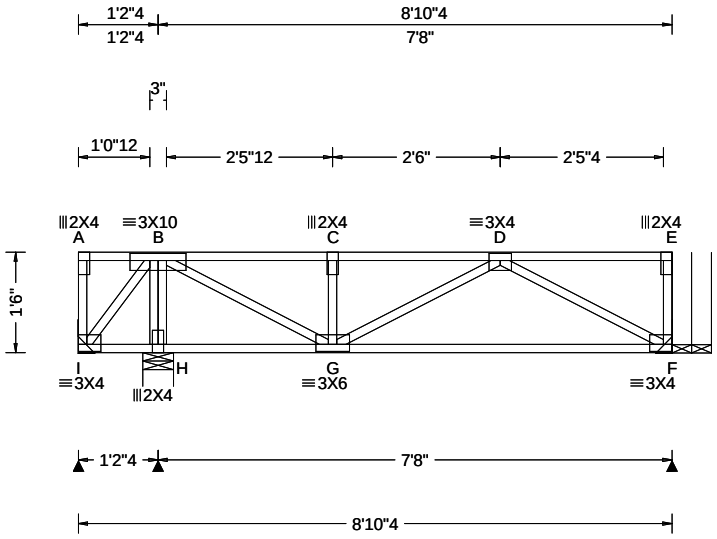
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 11

SEQN: 96319 / SY42 FROM:	Ply: 1 Qty: 36	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F02	Cust: R 9316 JRef:1XdX93160008 T6 DrwNo: 076.22.1322.47094 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.018	C	999	480
VERT(CL): 0.034	C	999	360
HORZ(LL): 0.002	F	-	-
HORZ(TL): 0.004	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.299
Max BC CSI: 0.301
Max Web CSI: 0.162

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	28	/-43	/-	/-	/-	/-
H	525	/-	/-	/-	/-	/-
F	372	/-	/-	/-	/-	/-

I Brg Wid = - Min Req = -
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
F Brg Wid = - Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-485	C - D	0	-485

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	473	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - H	0	-499	D - F	0	-537
B - G	576	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

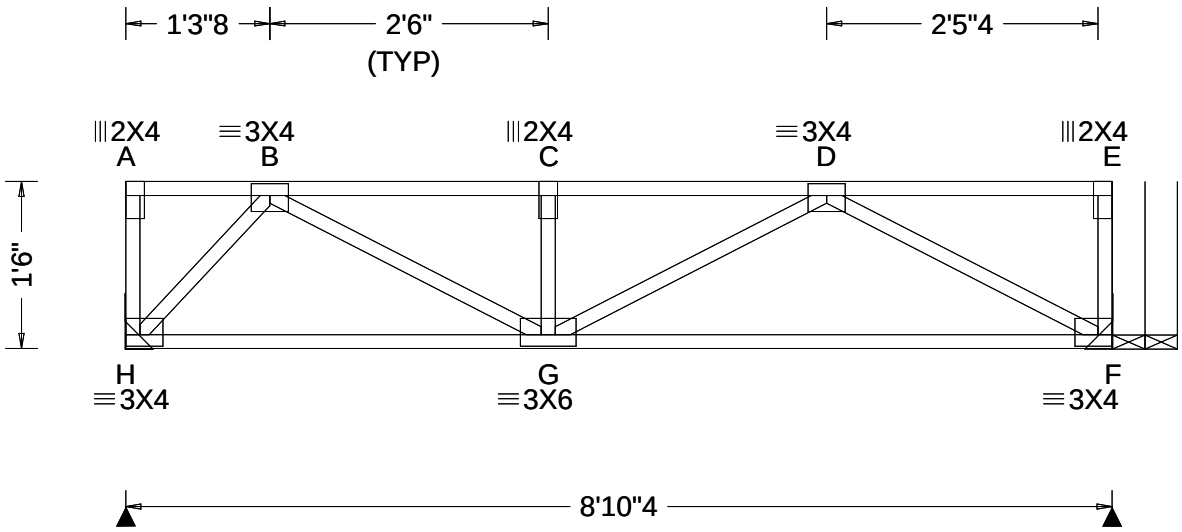
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 96321 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F03	Cust: R 9316 JRef:1XdX93160008 T7 / DrwNo: 076.22.1322.48370 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.024	C	999	480
VERT(CL): 0.046	C	999	360
HORZ(LL): 0.004	B	-	-
HORZ(TL): 0.008	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.298
Max BC CSI: 0.324
Max Web CSI: 0.141

VIEW Ver: 21.02.00.1005.17

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	443	/-	/-	/-	/-	/-
F	443	/-	/-	/-	/-	/-

H Brg Wid = - Min Req = -
F Brg Wid = - Min Req = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-747	C - D	0	-747

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	606	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - B	0	-546	D - F	0	-687
B - G	426	0			

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

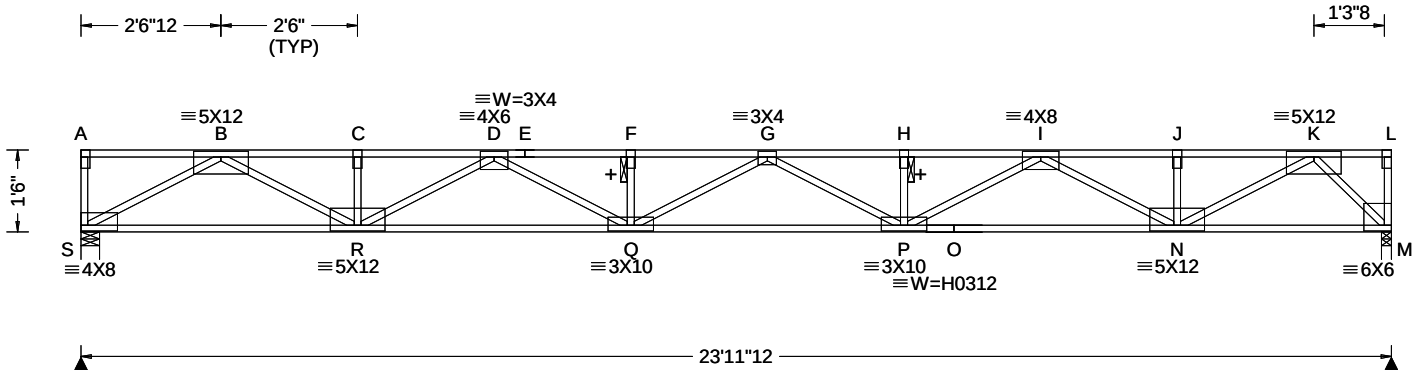
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96323 / SY42 FROM:	Ply: 1 Qty: 32	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F11	Cust: R 9316 JRef:1XdX93160008 T28 / DrwNo: 076.22.1322.49359 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.414	G	695	480
VERT(CL): 0.775	G	371	360
HORZ(LL): 0.057	M	-	-
HORZ(TL): 0.107	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.398
Max BC CSI: 0.672
Max Web CSI: 0.551

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
S	1199	/-	/-	/-	/-	/-
M	1199	/-	/-	/-	/-	/-

S Brg Wid = 4.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3522	G - H	0	-4917
C - D	0	-3522	H - I	0	-4917
D - E	0	-5123	I - J	0	-2895
E - F	0	-5123	J - K	0	-2895
F - G	0	-5123			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	2010	0	P - O	4106	0
R - Q	4523	0	O - N	4106	0
Q - P	5219	0	N - M	1183	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2281	P - I	925	0
B - R	1725	0	I - N	0	-1382
R - D	0	-1143	N - K	1954	0
D - Q	684	0	K - M	0	-1648

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

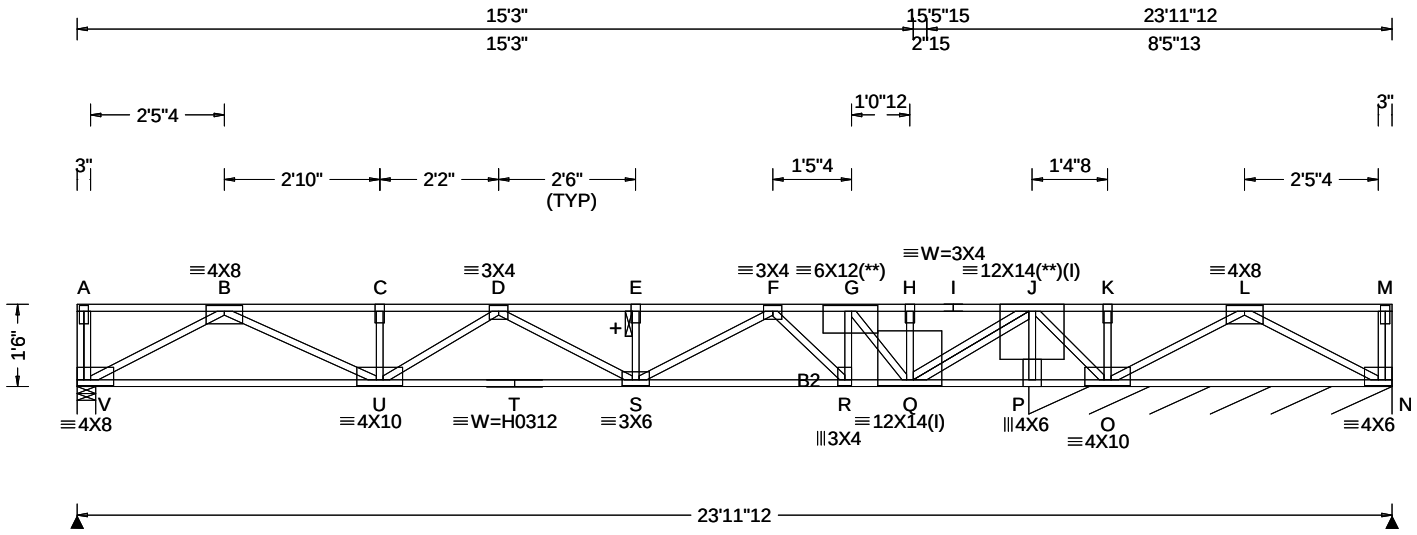
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96379 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F12	Cust: R 9316 JRef:1XdX93160008 T1 / DrwNo: 076.22.1322.49923 CAT / NDW 03/17/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.201 E 999 480 VERT(CL): 0.377 E 545 360 HORZ(LL): 0.029 B - - HORZ(TL): 0.054 B - - Creep Factor: 2.0 Max TC CSI: 0.946 Max BC CSI: 0.960 Max Web CSI: 0.568 VIEW Ver: 21.02.00.1005.17

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)

TC: From	87 plf at	0.00 to	87 plf at	23.98
BC: From	13 plf at	0.00 to	13 plf at	23.98

TC: 1500 lb Conc. Load at 14.06

Plating Notes

All plates are 2X4 except as noted.

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

▲Maximum Reactions (lbs), or *=PLF

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
V	961	/-	/-	/-	/-	/-
N*	443	/-	/-	/-	/-	/-
N		/-304				

V Brg Wid = 4.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2615	G - H	0	-818
C - D	0	-2615	H - I	0	-818
D - E	0	-3202	I - J	0	-818
E - F	0	-3202	J - K	2031	0
F - G	0	-2426	K - L	2031	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1461	0	R - Q	2382	0
U - T	3059	0	Q - P	0	-2607
T - S	3059	0	P - O	0	-2607
S - R	2851	0	O - N	0	-784

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1680	G - Q	0	-2558
B - U	1283	0	Q - J	4025	0
U - D	0	-526	J - P	0	-2889
S - F	401	0	J - O	816	0
F - R	0	-615	O - L	0	-1423
R - G	488	0	L - N	897	0

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

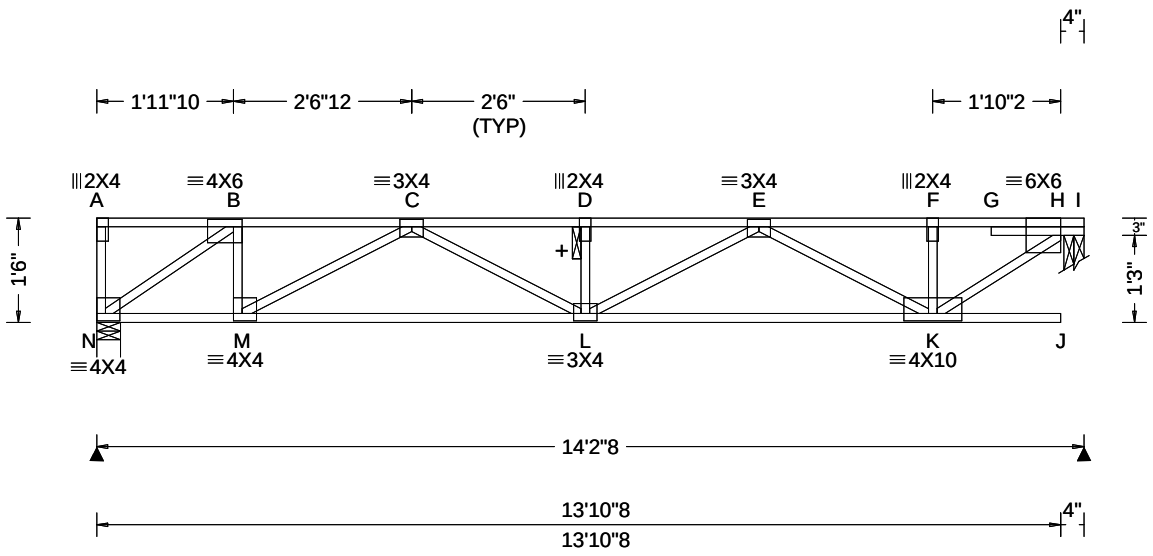
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96329 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F13	Cust: R 9316 JRef:1XdX93160008 T23 / DrwNo: 076.22.1322.48644 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.096	D	999	480
VERT(CL): 0.179	D	942	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.030	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.620
Max BC CSI: 0.537
Max Web CSI: 0.329

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
N	702	/-	/-	/-	/-	/-
H	714	/-	/-	/-	/-	/-

N Brg Wid = 4.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-943	E - F	0	-943
C - D	0	-1836	F - H	0	-942
D - E	0	-1836			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	905	0	L - K	1574	0
M - L	1582	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1104	E - K	0	-721
B - M	416	0	K - H	1166	0
M - C	0	-734			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

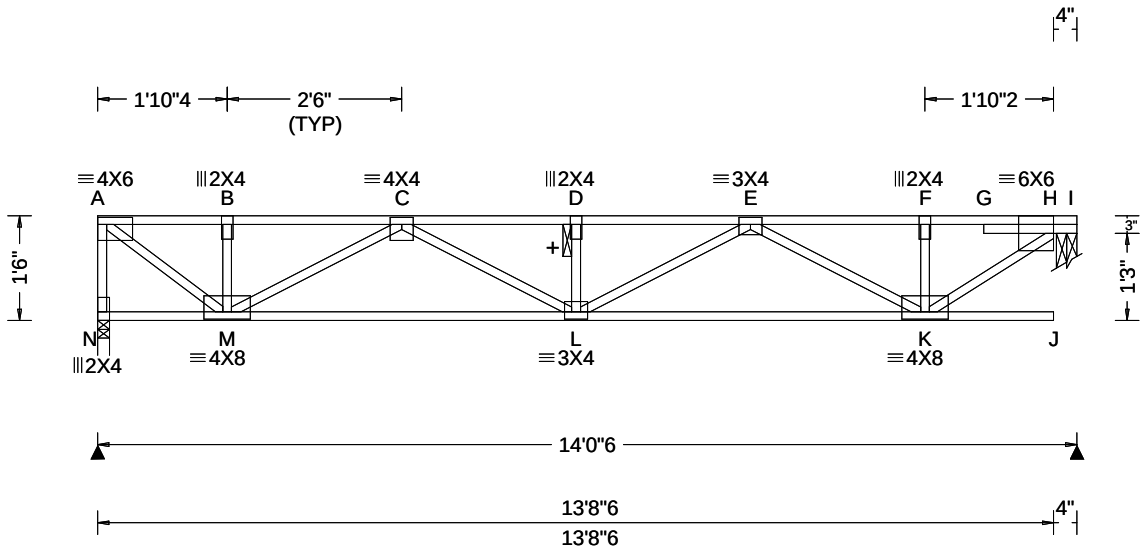
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96331 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F14	Cust: R 9316 JRef:1XdX93160008 T15 / DrwNo: 076.22.1322.47901 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.093	D	999	480
VERT(CL): 0.174	D	955	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.612
Max BC CSI: 0.524
Max Web CSI: 0.324

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	693	/-	/-		/-	/-	/-
H	706	/-	/-		/-	/-	/-

N Brg Wid = 2.0 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-849	D - E	0	-1791
B - C	0	-849	E - F	0	-929
C - D	0	-1791	F - H	0	-929

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1520	0	L - K	1546	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-690	E - K	0	-703
A - M	1057	0	K - H	1150	0
M - C	0	-766			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

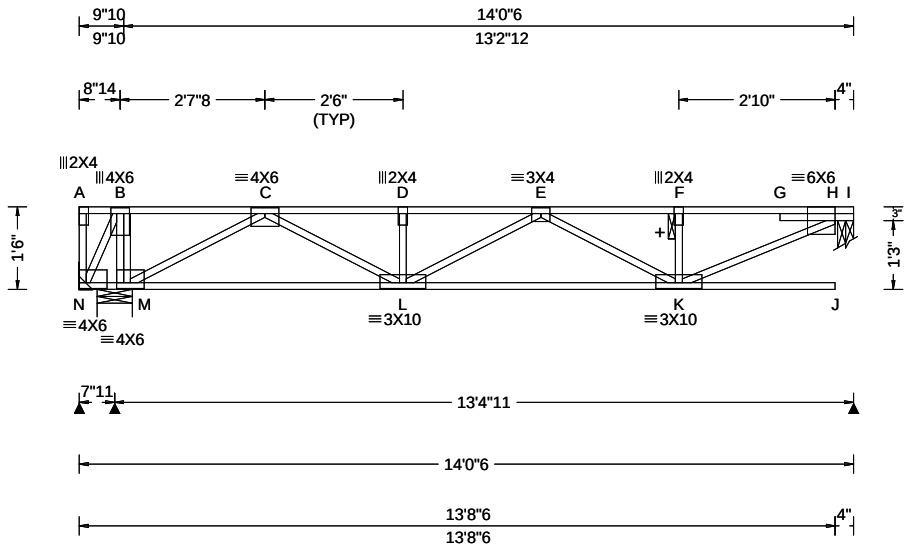
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96333 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F15	Cust: R 9316 JRef:1XdX93160008 T26 / DrwNo: 076.22.1322.48109 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.200	J	780	480
VERT(CL): 0.320	J	487	360
HORZ(LL): 0.011	C	-	-
HORZ(TL): 0.020	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.961
Max BC CSI: 0.588
Max Web CSI: 0.339

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-708	/-	/-	/-	/-
N	1480	/-	/-	/-	/-	/-
H	618	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
N Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	400	0	E - F	0	-1087
C - D	0	-1207	F - H	0	-1088
D - E	0	-1207			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	600	0	L - K	1318	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	685	0	C - L	693	0
B - M	0	-840	K - H	1201	0
M - C	0	-1141			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -708# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

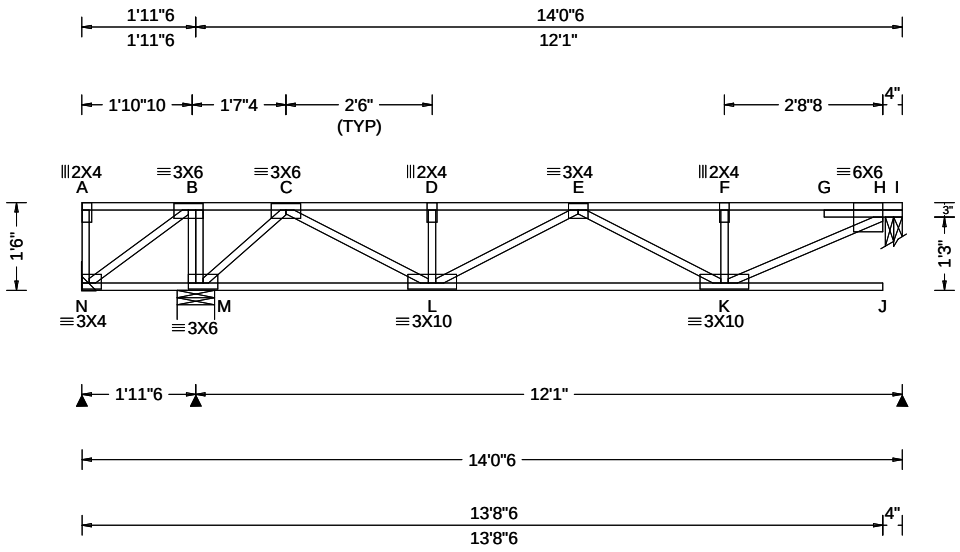
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96335 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F16	Cust: R 9316 JRef:1XdX93160008 T33 / DrwNo: 076.22.1322.49301 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.159	J	897	480
VERT(CL): 0.249	J	570	360
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.283

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-323	/-	/-	/-	/-
M	1131	/-	/-	/-	/-	/-
I	547	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	511	0	E - F	0	-901
C - D	0	-818	F - H	0	-903
D - E	0	-818			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-469	L - K	1034	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	580	0	C - L	816	0
B - M	0	-512	K - H	1004	0
M - C	0	-842			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

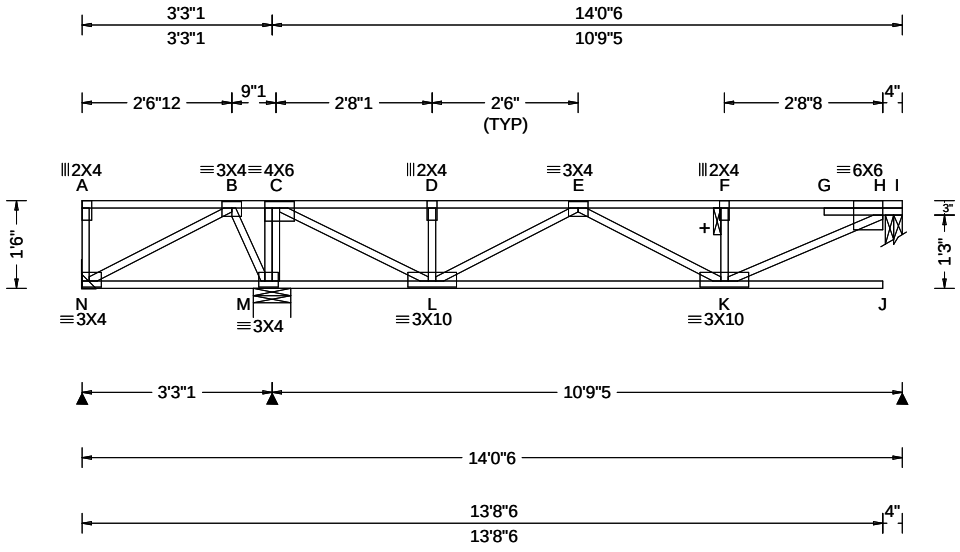
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96337 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F17	Cust: R 9316 JRef:1XdX93160008 T20 / DrwNo: 076.22.1322.49575 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	870	480
VERT(CL): 0.233	J	550	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.749
Max BC CSI: 0.437
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
N	57	/-122	/-	/-	/-	/-
M	959	/-	/-	/-	/-	/-
I	491	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	423	0	E - F	0	- 784
C - D	0	- 500	F - H	0	- 785
D - E	0	- 500			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	818	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	- 627	K - H	874	0
C - L	963	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

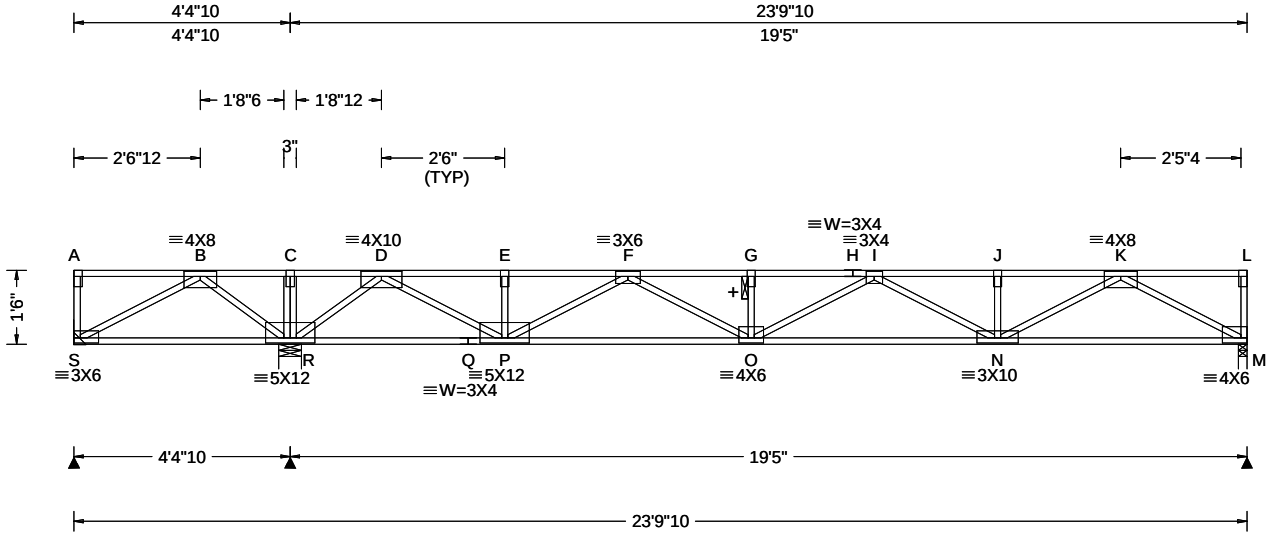
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96339 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18	Cust: R 9316 JRef:1XdX93160008 T16 / DrwNo: 076.22.1322.47363 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	G	999	480
VERT(CL): 0.371	G	628	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.796
Max Web CSI: 0.466

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	-	/-458	/-	/-	/-	/-
R	1886	/-	/-	/-	/-	/-
M	844	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1750	0	G - H	0	- 2537
C - D	1750	0	H - I	0	- 2537
D - E	0	- 1040	I - J	0	- 2220
E - F	0	- 1040	J - K	0	- 2220
F - G	0	- 2537			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	- 955	P - O	1987	0
R - Q	0	- 427	O - N	2580	0
Q - P	0	- 427	N - M	1352	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1084	0	F - O	631	0
B - R	0	- 1117	I - N	0	- 411
R - D	0	- 1648	N - K	991	0
D - P	1653	0	K - M	0	- 1535
P - F	0	- 1085			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -458# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

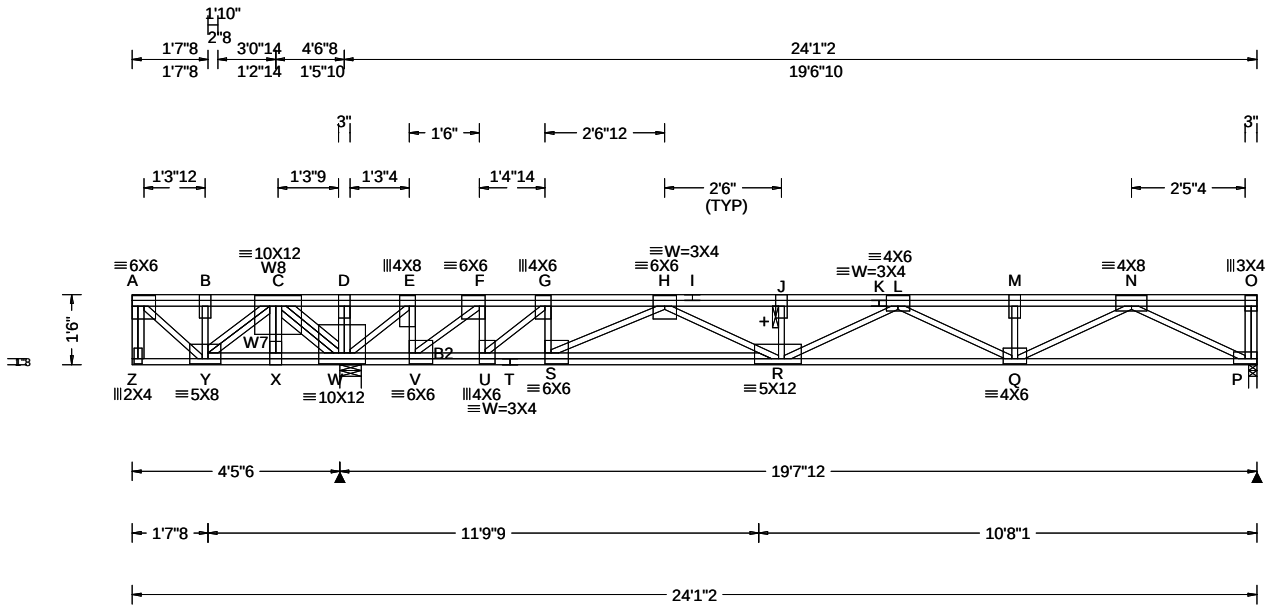
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96341 / SY42 FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18G	Cust: R 9316 JRef:1XdX93160008 T17 / DrwNo: 076.22.1322.49165 / NDW 03/17/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.124	Z	435	480
VERT(CL): 0.263	Z	204	360
HORZ(LL): -0.027	A	-	-
HORZ(TL): 0.058	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.885
Max BC CSI: 0.247
Max Web CSI: 0.249

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
W	8317	/-	/-	/-	/-	/-
P	962	/-165	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	420	0	H - I	1554	-1705
B - C	420	0	I - J	1554	-1705
C - D	4753	0	J - K	1551	-1711
D - E	4749	0	K - L	1551	-1711
E - F	4209	-367	L - M	534	-1347
F - G	3615	-827	M - N	534	-1347
G - H	3087	-1193			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	-1228	T - S	1169	-3130
X - W	0	-1219	S - R	1563	-2265
W - V	329	-4254	R - Q	1631	-993
V - U	793	-3663	Q - P	784	-222
U - T	1169	-3130			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	-548	G - S	539	0
Y - C	1053	0	S - H	0	-1139
C - W	0	-4787	H - R	869	0
W - E	0	-999	R - L	89	-626
E - V	636	0	L - Q	518	-321
V - F	0	-1035	Q - N	636	-353
F - U	652	0	N - P	250	-860
U - G	0	-919			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7,W8 4x2 DF-L 2400f-2.0E;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes

All plates are 3X6 except as noted.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

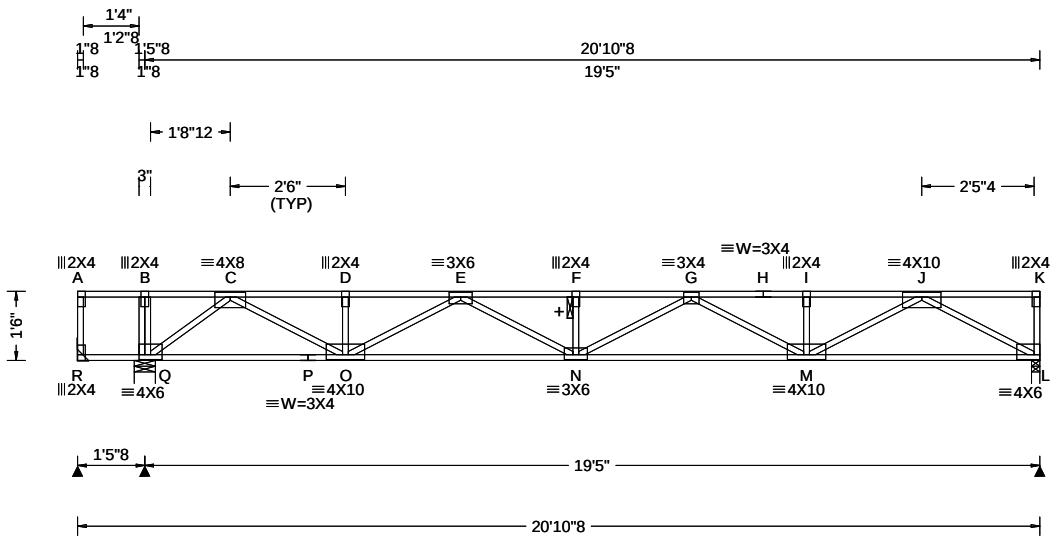
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 9750 / SY42 FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19	Cust: R 9316 JRef:1XdX93160008 T34 / DrwNo: 076.22.1322.49959 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.246	F	943	480
VERT(CL): 0.462	F	502	360
HORZ(LL): 0.038	L	-	-
HORZ(TL): 0.072	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.485
Max BC CSI: 0.960
Max Web CSI: 0.397

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
R	27	/-42	/-	/-	/-	/-
Q	1134	/-	/-	/-	/-	/-
L	962	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	- 2320	G - H	0	- 2651
D - E	0	- 2320	H - I	0	- 2651
E - F	0	- 3393	I - J	0	- 2651
F - G	0	- 3393			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1089	0	N - M	3224	0
P - O	1089	0	M - L	1570	0
O - N	3055	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - C	0	- 1383	G - M	0	- 654
C - O	1407	0	M - J	1233	0
O - E	0	- 839	J - L	0	- 1782
E - N	387	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

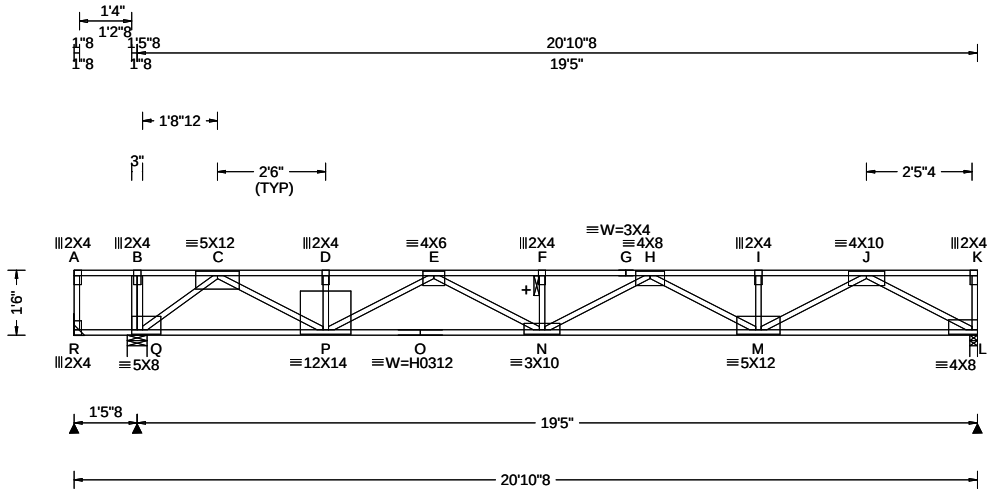
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 9752 / SY42 FROM:	Ply: 2 Qty: 4	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19G	Cust: R 9316 JRef:1XdX93160008 T8 / DrwNo: 076.22.1322.49939 / NDW 03/17/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.290	F	799	480
VERT(CL): 0.545	F	426	360
HORZ(LL): 0.041	C	-	-
HORZ(TL): 0.076	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.583
Max BC CSI: 0.585
Max Web CSI: 0.629

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	24	/-58	/-	/-	/-	/-
Q	3942	/-	/-	/-	/-	/-
L	1997	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-3789	G - H	0	-5138
D - E	0	-3789	H - I	0	-3219
E - F	0	-5138	I - J	0	-3219
F - G	0	-5138			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1835	0	N - M	4478	0
P - O	4877	0	M - L	1748	0
O - N	4877	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - Q	0	-465	F - N	0	-473
Q - C	0	-2340	N - H	753	0
C - P	2229	0	H - M	0	-1437
D - P	0	-467	M - J	1679	0
P - E	0	-1242	J - L	0	-1984

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
Webs: 4x2 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 20.88
BC: From 13 plf at 0.00 to 13 plf at 20.88
TC: 443 lb Conc. Load at 0.94
TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27 7.60, 8.94,10.27,11.60,12.94

Deflection
Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

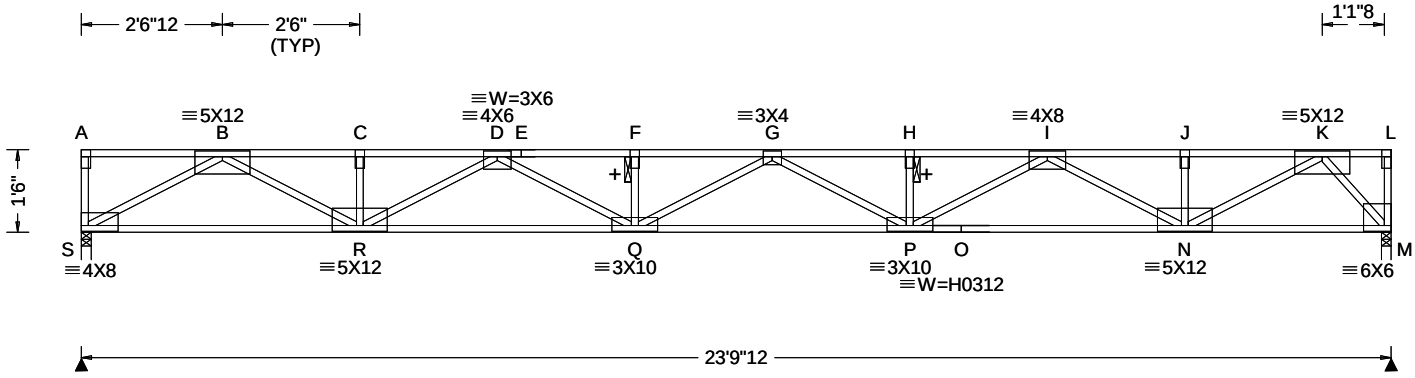
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96343 / SY42 FROM:	Ply: 1 Qty: 32	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F21	Cust: R 9316 JRef:1XdX93160008 T19 / DrwNo: 076.22.1322.46965 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.419	G	682	480
VERT(CL): 0.785	G	364	360
HORZ(LL): 0.056	M	-	-
HORZ(TL): 0.104	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.442
Max BC CSI: 0.664
Max Web CSI: 0.556

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	1191	/-	/-	/-	/-	/-
M	1191	/-	/-	/-	/-	/-

S Brg Wid = 2.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3491	G - H	0	-4826
C - D	0	-3491	H - I	0	-4826
D - E	0	-5062	I - J	0	-2773
E - F	0	-5062	J - K	0	-2773
F - G	0	-5062			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	1995	0	P - O	4000	0
R - Q	4479	0	O - N	4000	0
Q - P	5145	0	N - M	1047	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2264	P - I	942	0
B - R	1707	0	I - N	0	-1401
R - D	0	-1127	N - K	1969	0
D - Q	665	0	K - M	0	-1557

Lumber
Top chord: 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

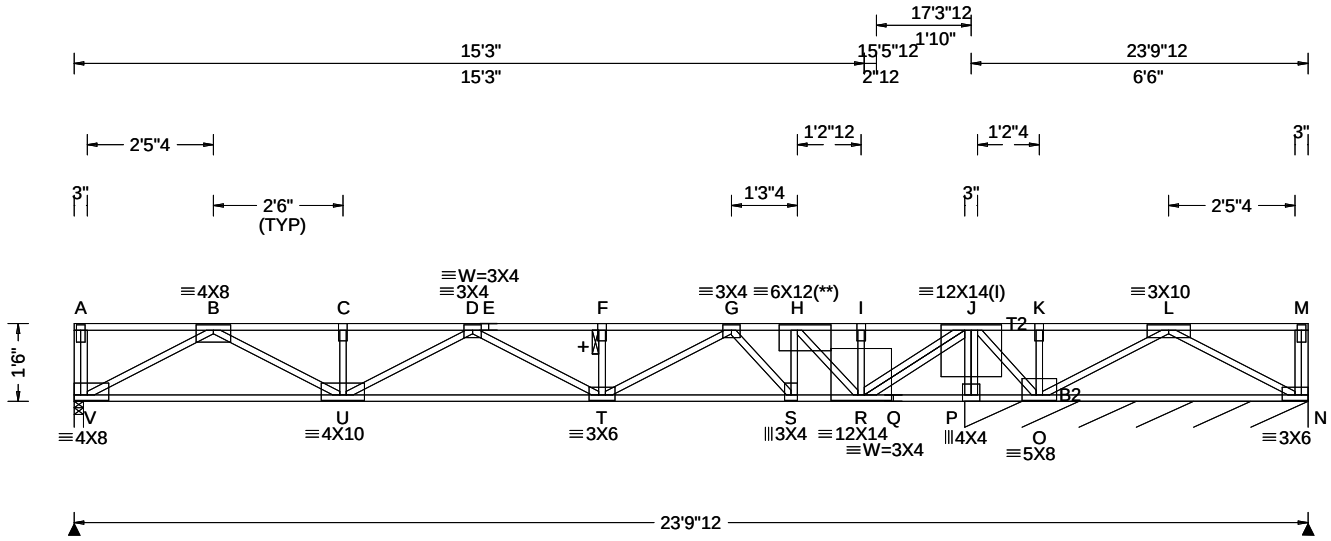
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96374 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F22	Cust: R 9316 JRef:1XdX93160008 T2 / DrwNo: 076.22.1322.49587 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.179	F	999	480
VERT(CL): 0.335	F	613	360
HORZ(LL): 0.026	B	-	-
HORZ(TL): 0.049	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.504
Max BC CSI: 0.472
Max Web CSI: 0.548

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	441	/-	/-	/-	/-	/-
N		/-246				

V Brg Wid = 2.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2565	G - H	0	-2521
C - D	0	-2565	H - I	0	-698
D - E	0	-3256	I - J	0	-698
E - F	0	-3256	J - K	1825	0
F - G	0	-3256	K - L	1825	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1507	0	R - Q	0	-2561
U - T	3113	0	Q - P	0	-2561
T - S	2904	0	P - O	0	-2561
S - R	2477	0	O - N	0	-681

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1714	H - R	0	-2670
B - U	1208	0	R - J	3882	0
U - D	0	-625	J - P	0	-3088
T - G	402	0	J - O	1065	0
G - S	0	-598	O - L	0	-1307
S - H	486	0	L - N	779	0

Lumber

Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)

TC: From	87 plf at	0.00 to	87 plf at	23.81
BC: From	13 plf at	0.00 to	13 plf at	23.81

TC: 1500 lb Conc. Load at 13.90

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

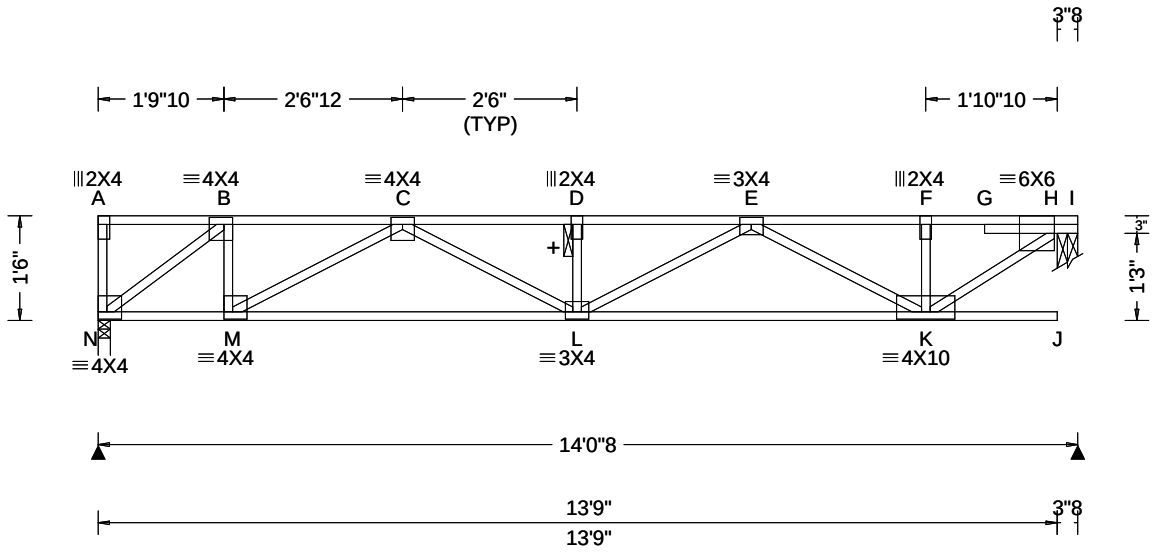
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96347 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F23	Cust: R 9316 JRef:1XdX93160008 T25 / DrwNo: 076.22.1322.47915 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.092	D	999	480
VERT(CL): 0.172	D	970	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.029	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.613
Max BC CSI: 0.522
Max Web CSI: 0.325

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	694	/-	/-		/-	/-	/-
H	707	/-	/-		/-	/-	/-

N Brg Wid = 2.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-869	E - F	0	-931
C - D	0	-1793	F - H	0	-930
D - E	0	-1793			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	831	0	L - K	1548	0
M - L	1525	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1045	E - K	0	-704
B - M	425	0	K - H	1152	0
M - C	0	-752			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

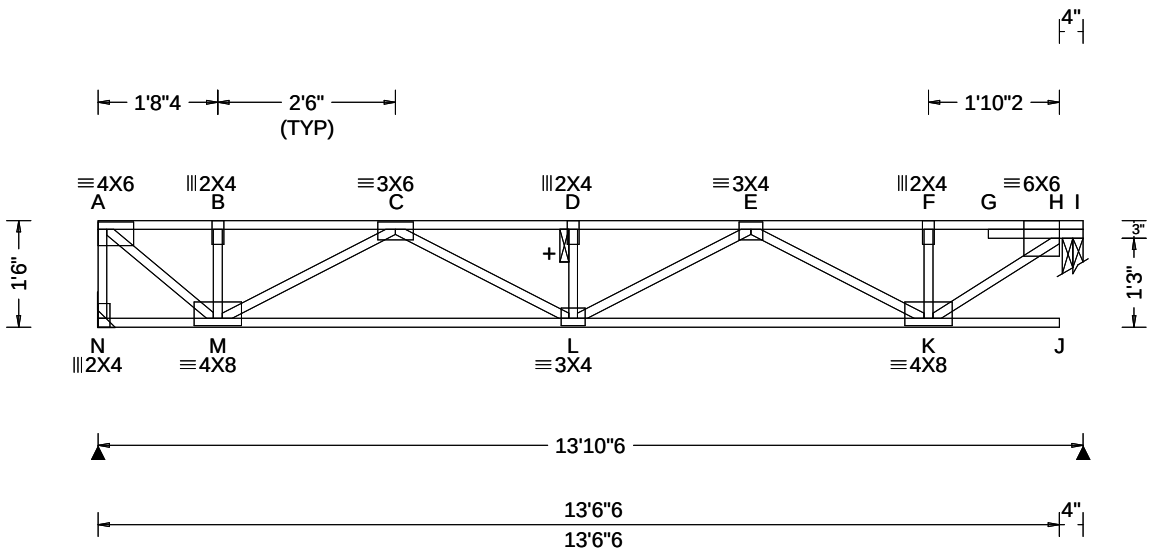
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96349 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F24	Cust: R 9316 JRef:1XdX93160008 T3 / DrwNo: 076.22.1322.47157 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.090	D	999	480
VERT(CL): 0.167	D	982	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.604
Max BC CSI: 0.513
Max Web CSI: 0.320

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	685	/-	/-	/-	/-	/-
H	697	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-776	D - E	0	-1749
B - C	0	-776	E - F	0	-917
C - D	0	-1749	F - H	0	-916

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1463	0	L - K	1518	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-684	E - K	0	-687
A - M	1001	0	K - H	1134	0
M - C	0	-784			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

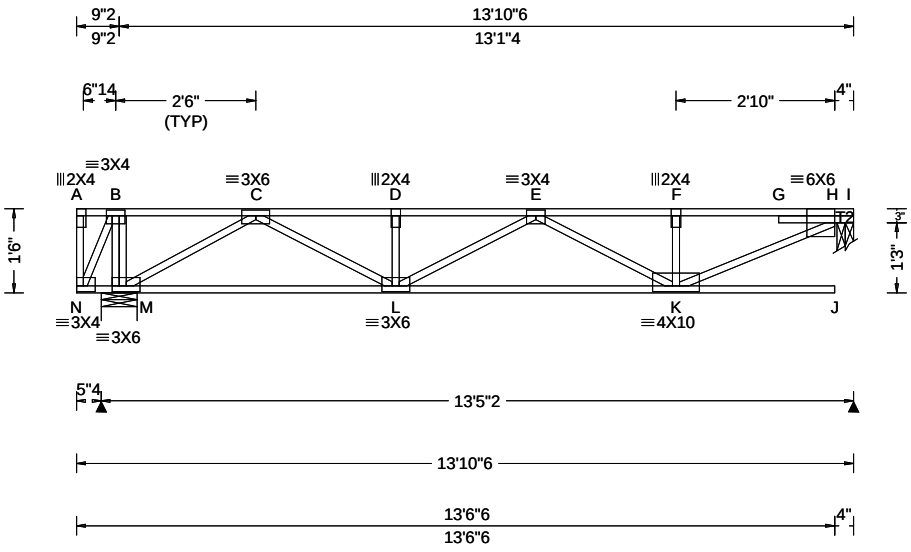
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96351 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F25	Cust: R 9316 JRef:1XdX93160008 T11 / DrwNo: 076.22.1322.48996 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	J	784	480
VERT(CL): 0.316	J	488	360
HORZ(LL): 0.013	A	-	-
HORZ(TL): 0.024	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.609
Max BC CSI: 0.630
Max Web CSI: 0.367

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
M	729	/-	/-		/-	/-	/-
H	659	/-	/-		/-	/-	/-

M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-1447	E - F	0	-1177
D - E	0	-1447	F - H	0	-1178

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	912	0	L - K	1482	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	-1015	K - H	1301	0
C - L	614	0			

Lumber

Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

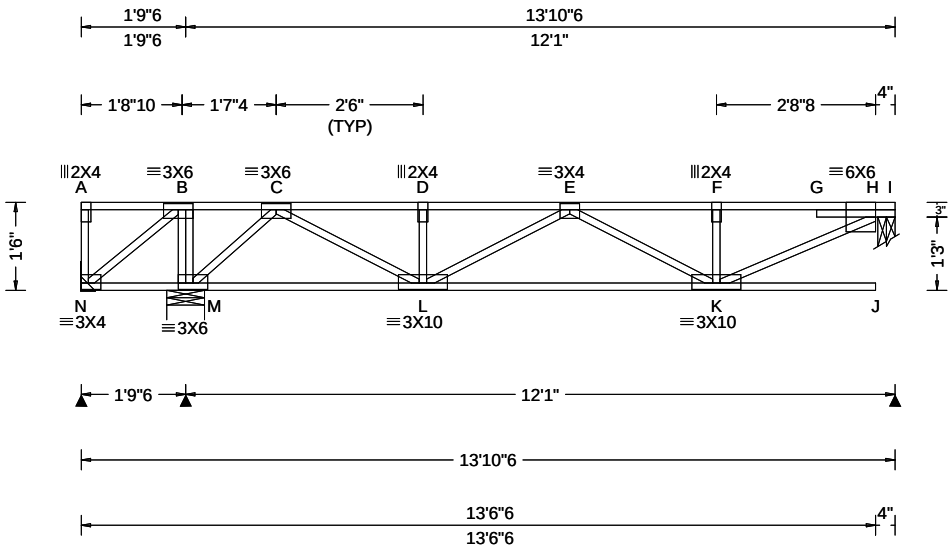
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96353 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F26	Cust: R 9316 JRef:1XdX93160008 T5 / DrwNo: 076.22.1322.47778 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.158	J	897	480
VERT(CL): 0.249	J	570	360
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.284

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
N	- /-358	/-	/-	/-	/-	
M	1154 /-	/-	/-	/-	/-	
H	547 /-	/-	/-	/-	/-	

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	510	0	E - F	0	-902
C - D	0	-819	F - H	0	-903
D - E	0	-819			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-465	L - K	1035	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	596	0	C - L	815	0
B - M	0	-533	K - H	1005	0
M - C	0	-843			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

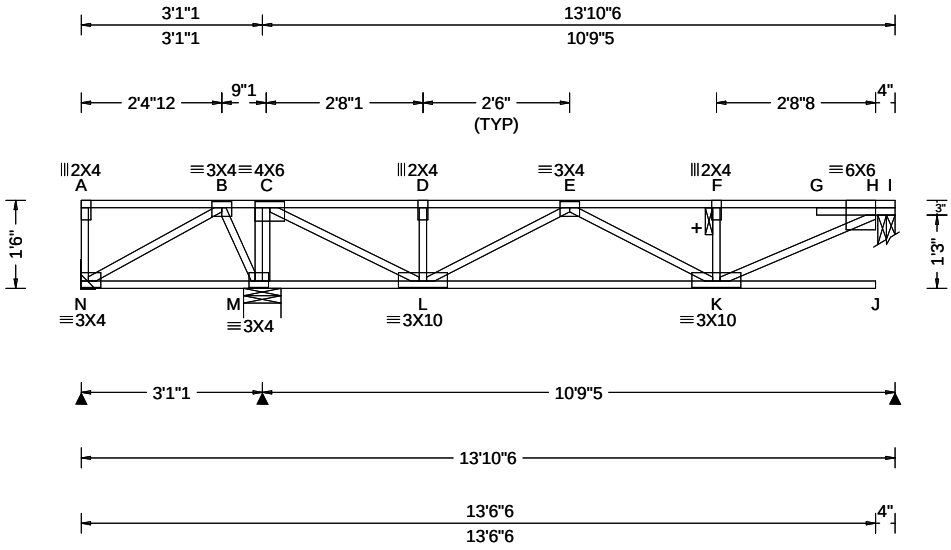
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 96355 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F27	Cust: R 9316 JRef:1XdX93160008 T9 / DrwNo: 076.22.1322.47209 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	869	480
VERT(CL): 0.233	J	549	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.748
Max BC CSI: 0.436
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
N	44 /-139	/-	/-	/-	/-	
M	963 /-	/-	/-	/-	/-	
H	491 /-	/-	/-	/-	/-	

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	427	0	E - F	0	- 782
C - D	0	- 495	F - H	0	- 784
D - E	0	- 495			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	815	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	- 633	K - H	872	0
C - L	964	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

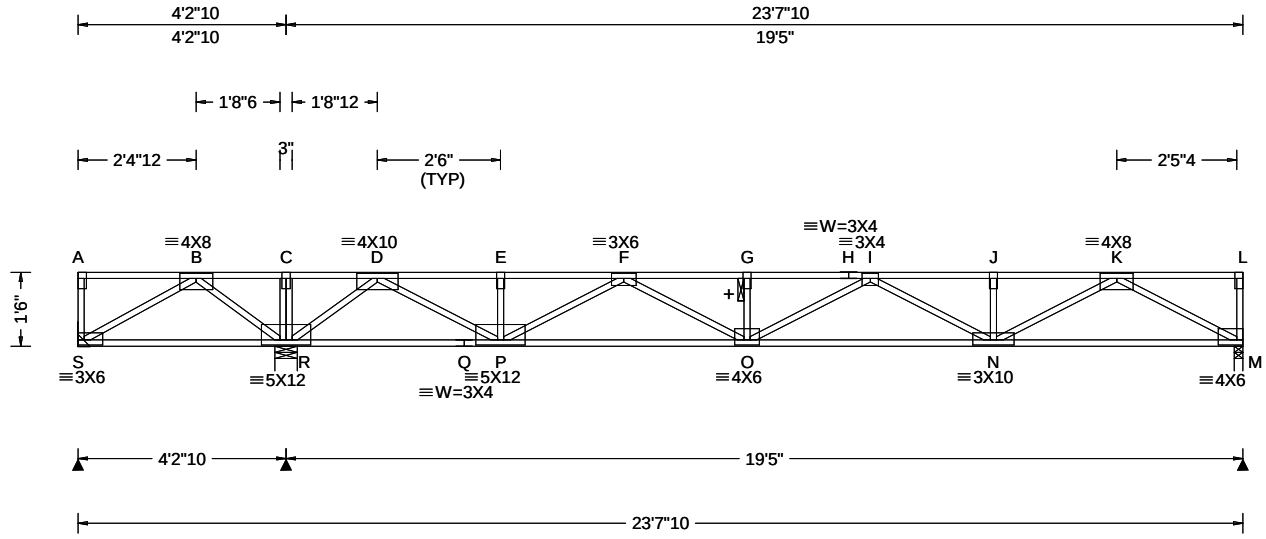
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96357 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F28	Cust: R 9316 JRef:1XdX93160008 T10 / DrwNo: 076.22.1322.47743 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.196	G	999	480
VERT(CL): 0.369	G	630	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.795
Max Web CSI: 0.467

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	-	/-490	/-	/-	/-	/-
R	1906	/-	/-	/-	/-	/-
M	843	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1763	0	G - H	0	- 2527
C - D	1763	0	H - I	0	- 2527
D - E	0	- 1026	I - J	0	- 2216
E - F	0	- 1026	J - K	0	- 2216
F - G	0	- 2527			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	- 944	P - O	1976	0
R - Q	0	- 440	O - N	2573	0
Q - P	0	- 440	N - M	1350	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1088	0	F - O	633	0
B - R	0	- 1142	I - N	0	- 408
R - D	0	- 1649	N - K	988	0
D - P	1656	0	K - M	0	- 1532
P - F	0	- 1087			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -490# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

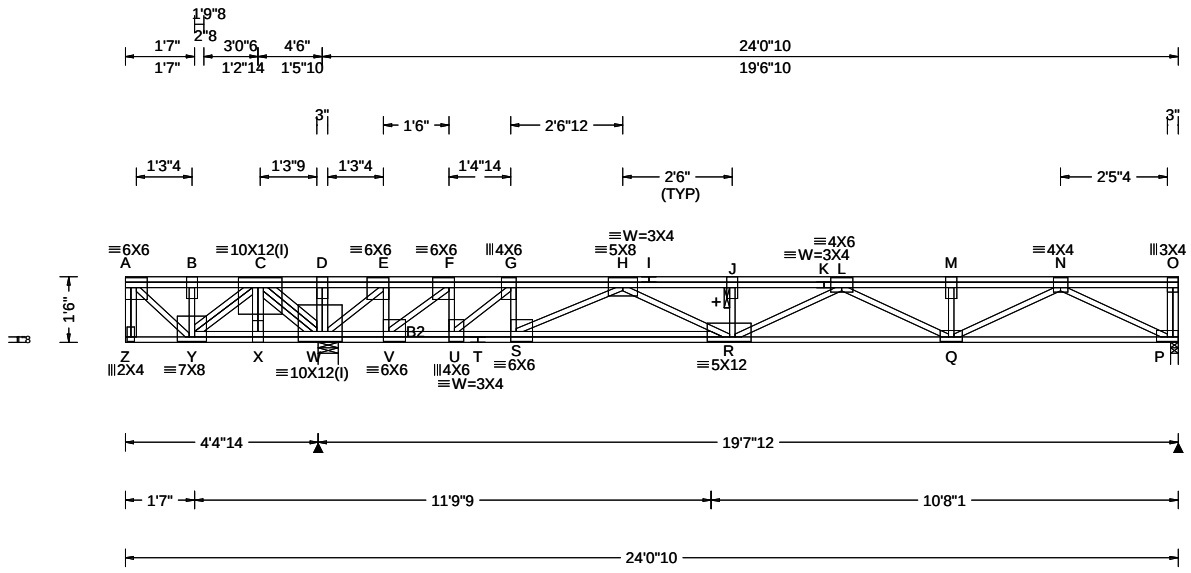
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 96361 / SY42 FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F28G	Cust: R 9316 JRef:1XdX93160008 T12 / DrwNo: 076.22.1322.46962 / NDW 03/17/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.120	A	443	480
VERT(CL): 0.268	Z	198	360
HORZ(LL): -0.025	A	-	-
HORZ(TL): 0.057	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.433
Max BC CSI: 0.260
Max Web CSI: 0.271

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
W	8750	/-	/-	/-	/-	/-
P	618	/-243	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	597	0	H - I	1855	-383
B - C	597	0	I - J	1855	-383
C - D	5342	0	J - K	1853	-389
D - E	5337	0	K - L	1853	-389
E - F	4767	0	L - M	685	-689
F - G	4126	0	M - N	685	-689
G - H	3551	0			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	-1645	T - S	0	-3597
X - W	0	-1635	S - R	0	-2646
W - V	0	-4815	R - Q	647	-1215
V - U	0	-4178	Q - P	456	-296
U - T	0	-3597			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	-789	G - S	577	0
Y - C	1366	0	S - H	0	-1230
C - W	0	-5021	H - R	961	0
W - E	0	-1030	R - L	0	-716
E - V	677	0	L - Q	599	0
V - F	0	-1093	Q - N	264	-439
F - U	694	0	N - P	330	-495
U - G	0	-980			

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.05
BC: From 13 plf at 0.00 to 13 plf at 24.05
TC: 1129 lb Conc. Load at 0.12
TC: 5500 lb Conc. Load at 3.03

Plating Notes

All plates are 3X6 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

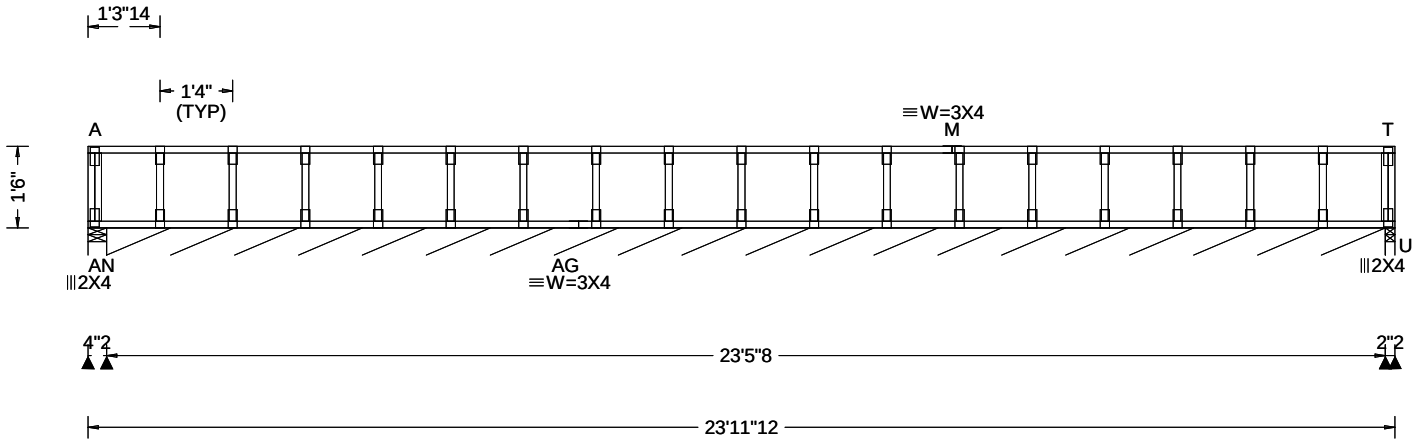
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96363 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L11	Cust: R 9316 JRef:1XdX93160008 T29 / DrwNo: 076.22.1322.48736 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	T	999	480
VERT(CL): 0.001	T	999	360
HORZ(LL): -0.003	B	-	-
HORZ(TL): 0.005	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.060
Max BC CSI: 0.013
Max Web CSI: 0.018

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AN	68 /-	/-	/-	/-	/-
AN*	97 /-	/-	/-	/-	/-
U	64 /-	/-	/-	/-	/-

AN Brg Wid = 4.1 Min Req = 1.5 (Truss)
AN Brg Wid = 281 Min Req = -
U Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AN, AN, & U are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

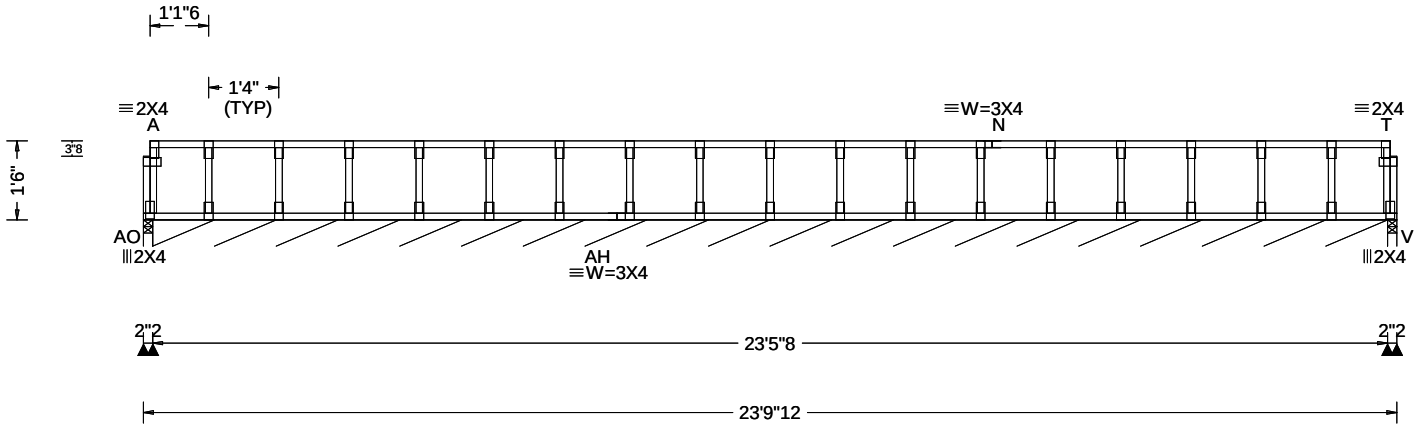
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96365 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L21	Cust: R 9316 JRef:1XdX93160008 T30 / DrwNo: 076.22.1322.49070 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	T	999	480
VERT(CL): 0.000	T	999	360
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.057
Max BC CSI: 0.009
Max Web CSI: 0.018

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AO	48	/-	/-	/-	/-	/-
AO	*97	/-	/-	/-	/-	/-
V	48	/-	/-	/-	/-	/-

AO Brg Wid = 2.1 Min Req = 1.5 (Truss)
AO Brg Wid = 281 Min Req = -
V Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AO, AO, & V are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

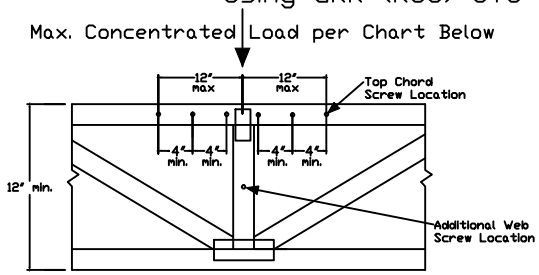
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

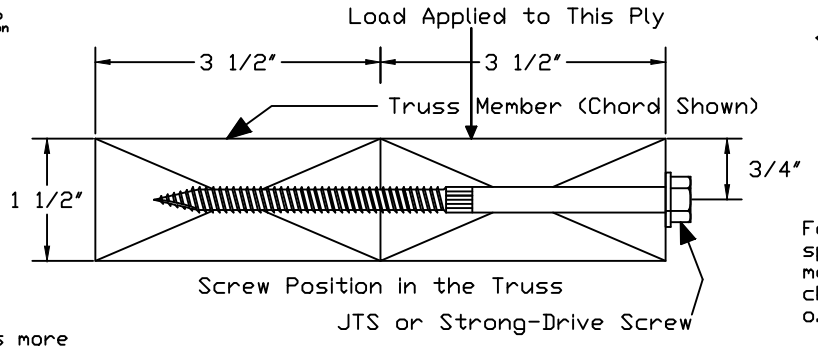
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

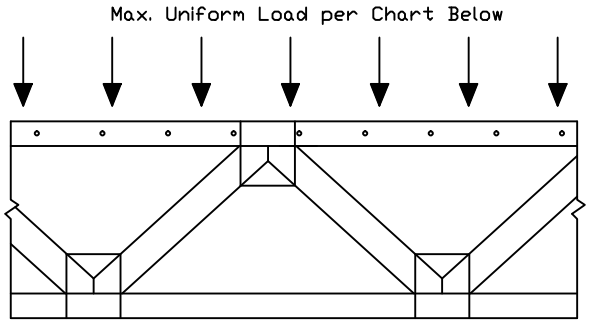
System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.



Refer to Alpine sealed drawing for individual truss design.





Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

TC LL		PSF
TC DL		PSF
BC DL		PSF
BC LL		PSF
TOT. LD.		PSF
DUR. FAC.	1.00	
SPACING		

REF	SY42 Connection
DATE	01/19/2018
DRWG	CNSY42PL0118

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

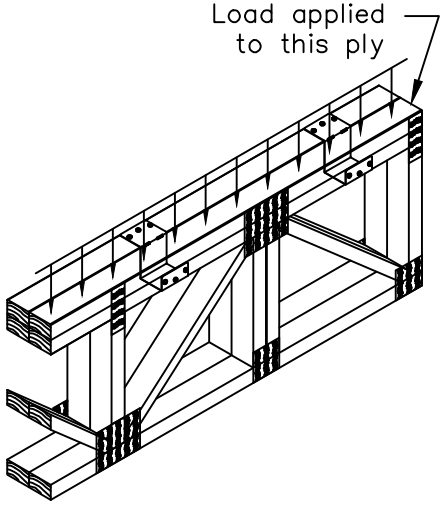
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL

FOR DOWNWARD LOADS ONLY

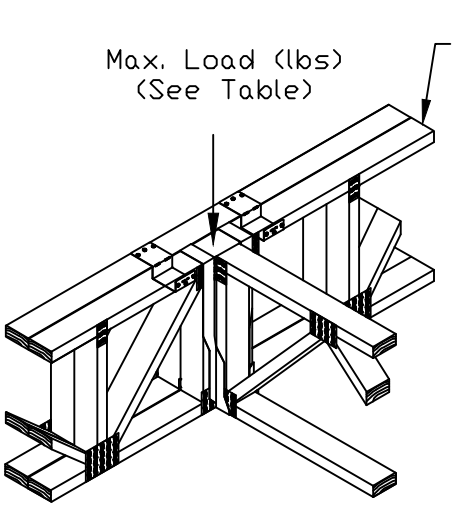
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application



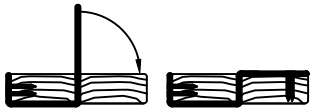
Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

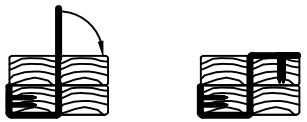
Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.

2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

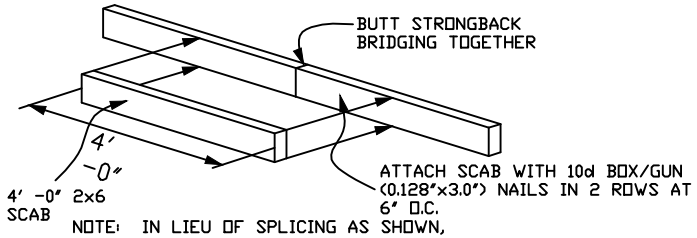
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

ALPINE® ITW COMPANY
[illegible] Earth City Expressway
[illegible] 63045

DUR. FAC. ALL

REF SY42 Connection
DATE 10/01/14
DRWG LSCSYX2A1014

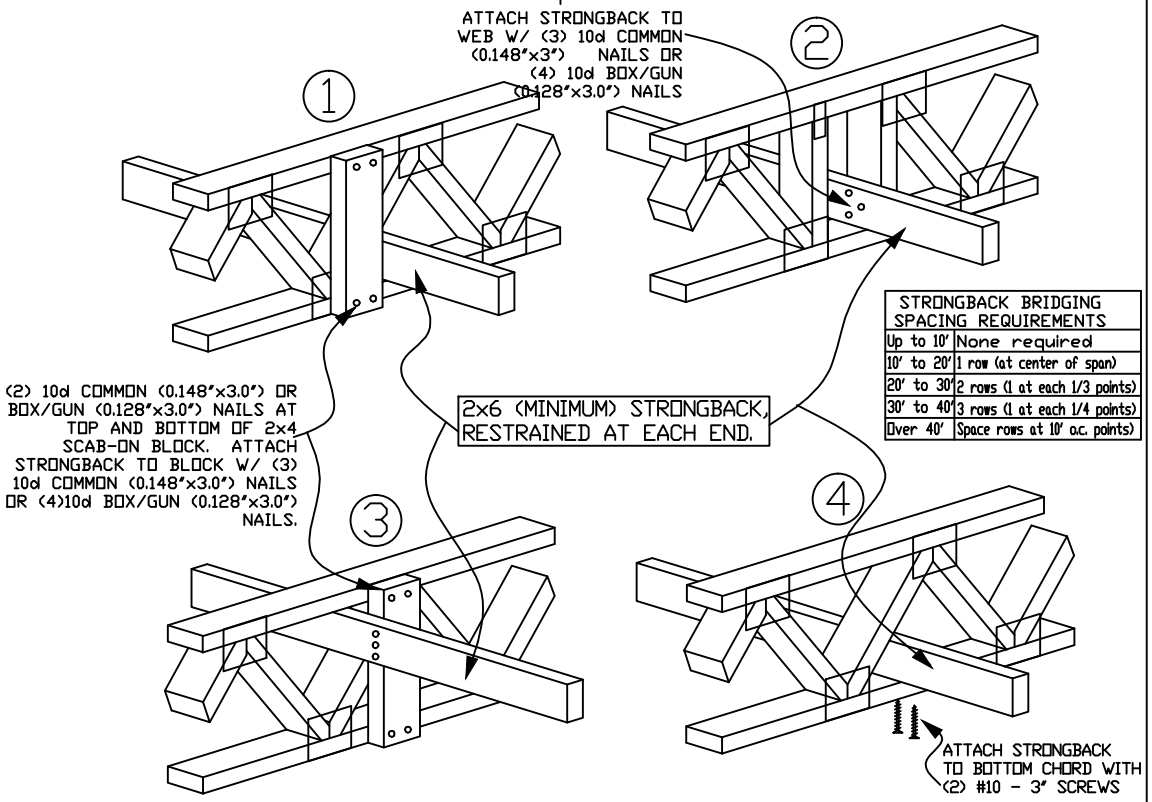
STRONGBACK BRIDGING RECOMMENDATIONS



NOTE: IN LIEU OF SPLICING AS SHOWN, LAP STRONGBACK BRIDGING MEMBERS FOR AT LEAST ONE TRUSS SPACING

STRONGBACK BRIDGING SPLICE DETAIL

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING SPACING REQUIREMENTS	
Up to 10'	None required
10' to 20'	1 row (at center of span)
20' to 30'	2 rows (1 at each 1/3 points)
30' to 40'	3 rows (1 at each 1/4 points)
Over 40'	Space rows at 10' o.c. points)

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

- All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

ALPINE® ITW COMPANY

Earth City Expressway

3045

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineltw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

TC LL	PSF	REF STRONGBACK
TC DL	PSF	DATE 10/01/14
BC DL	PSF	DRWG STRBRIBR1014
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.	1.00	
SPACING		

MiTek Accessories

03/17/2022

Building 11

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/19/2022

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 6/6/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED. REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 *BY:* CB

Site Information:	**Page 1:**
Customer: Mill Creek Truss	*Job Number:* JB-220693
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1XfO93160003
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 109 *Building Type:* Closed	*Design Loading (psf):* 65.00

This package contains general notes pages, 82 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	139.22.0947.36020	J01G	2	139.22.0947.40317	J02
3	139.22.0947.49490	J03	4	139.22.0948.19840	T01
5	139.22.0948.26067	T02	6	139.22.0948.31583	T03
7	139.22.0948.36433	T04	8	139.22.0948.45297	T05
9	139.22.0948.49100	T06	10	139.22.0948.54373	T07
11	139.22.0948.59223	T08	12	139.22.0949.31840	T10
13	139.22.1000.04690	T11	14	139.22.1000.21780	T12
15	139.22.1000.44667	T13	16	139.22.1000.47867	T14
17	139.22.1000.52200	T15	18	139.22.1001.03370	T17
19	139.22.1001.08417	T18	20	139.22.1001.14067	T19
21	139.22.1001.40657	T20	22	139.22.1001.45153	T21
23	139.22.1001.49203	T22	24	139.22.1001.55453	T23
25	139.22.1002.03703	T24	26	139.22.1012.18290	T25
27	139.22.1012.25377	T26	28	139.22.1012.30043	T27
29	139.22.1012.35600	T28	30	139.22.1012.42393	T29
31	139.22.1012.48447	T30	32	139.22.1012.56007	T31
33	139.22.1013.09360	T33	34	139.22.1013.14307	T34
35	139.22.1013.20497	T35	36	139.22.1013.26690	T36
37	139.22.1013.35327	T37	38	139.22.1013.42607	T38
39	139.22.1013.50930	T39	40	139.22.1013.57413	T40
41	139.22.1014.02977	T41	42	139.22.1014.09803	T42
43	139.22.1014.15690	T43	44	139.22.1014.22700	T44
45	139.22.1014.27663	T45	46	139.22.1014.37373	T46
47	139.22.1014.44723	T47	48	139.22.1014.48777	T48
49	139.22.1014.57150	T49	50	139.22.1015.01500	T50

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/19/2022

Site Information:	Page 2:
Customer: Mill Creek Truss	*Job Number:* JB-220693
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	139.22.1015.15527	T51
53	139.22.0906.42780	TGE01
55	139.22.0906.42914	TGE03
57	139.22.0906.42054	TGE05
59	139.22.0906.41921	TGE07
61	139.22.0906.42717	TGE09
63	139.22.0906.42423	TGE11
65	139.22.0906.42013	TGE13
67	139.22.0906.42496	TGE15
69	139.22.0906.42327	TGE17
71	139.22.1015.25600	TGE19
73	139.22.1015.34987	TGE21
75	139.22.0906.42000	TGE23
77	139.22.1000.59477	T16
79	139.22.0947.45770	J02A
81	139.22.1015.48073	TGE24
83	A11530ENC160118	
85	DEFLCAMB1014	
87	GBLLETIN0118	

Item	Drawing Number	Truss
52	139.22.1015.19437	T52
54	139.22.0906.42670	TGE02
56	139.22.0906.42840	TGE04
58	139.22.0906.41998	TGE06
60	139.22.0906.42885	TGE08
62	139.22.0906.42662	TGE10
64	139.22.0906.42021	TGE12
66	139.22.0906.42067	TGE14
68	139.22.0906.42361	TGE16
70	139.22.0906.42020	TGE18
72	139.22.1015.32097	TGE20
74	139.22.1015.39407	TGE22
76	139.22.0949.12417	T09
78	139.22.1013.04320	T32
80	139.22.0949.02650	T08A
82	139.22.1014.52860	T48A
84	BRCLBSUB0119	
86	GABRST160118	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

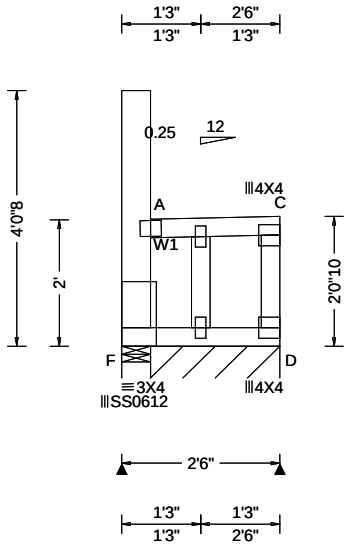
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 11

SEQN: 36967 GABL FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J01G	Cust: R 9316 JRef:1XfO93160003 T208 DrwNo: 139.22.0947.36020 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
18SS, WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	A	999	360
VERT(CL): 0.007	A	999	240
HORZ(LL): 0.092	A	-	-
HORZ(TL): 0.105	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.129
Max BC CSI: 0.373
Max Web CSI: 0.164

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	47	/-	/-	/124	/146	/99
D*	134	/-	/-	/130	/58	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 24.5 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

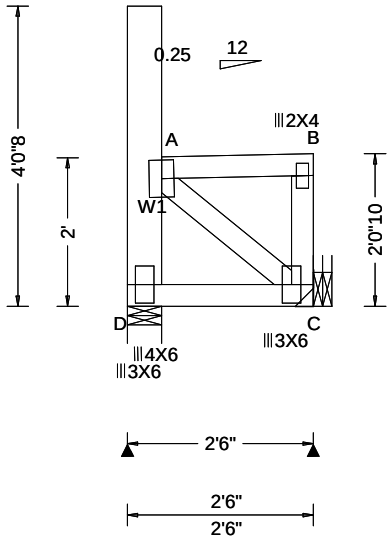
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36968 MONO FROM:	Ply: 1 Qty: 27	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02	Cust: R 9316 JRef:1XfO93160003 T218 DrwNo: 139.22.0947.40317 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.103
Max BC CSI: 0.079
Max Web CSI: 0.131

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	147	/-	/-	/114	/80	/91
C	173	/-	/-	/158	/64	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
A - C	240	-390

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

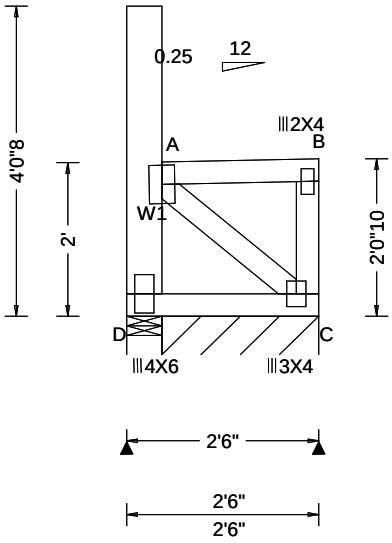
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36970 MONO FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J03	Cust: R 9316 JRef:1XfO93160003 T135 DrwNo: 139.22.0947.49490 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.103
Max BC CSI: 0.079
Max Web CSI: 0.106

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	147	/-	/-	/123	/86	/99
C*	85	/-	/-	/78	/34	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = 24.5 Min Req = -
Bearings D & D are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

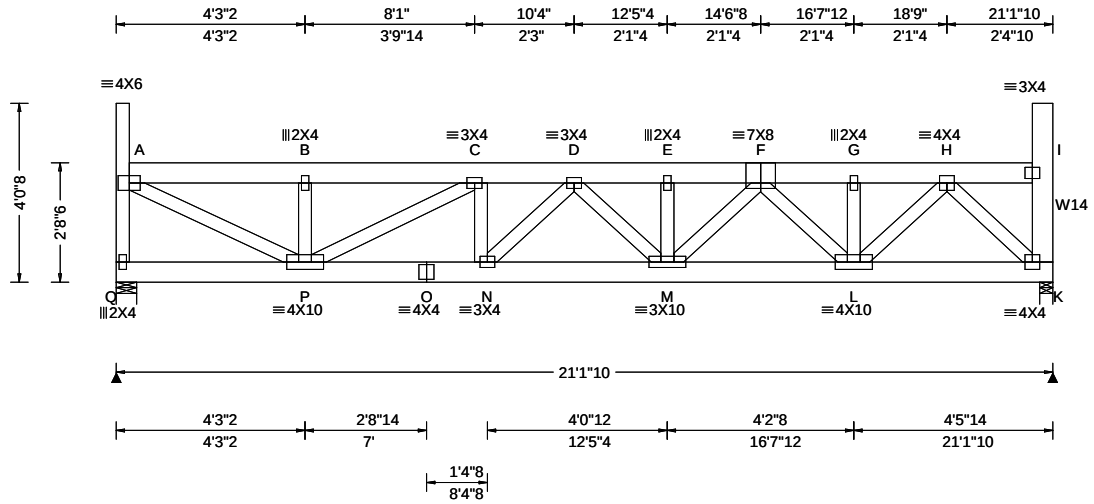
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37048 FLAT FROM:	Ply: 3 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T01	Cust: R 9316 JRef:1XfO93160003 T2 DrwNo: 139.22.0948.19840 / NDW 05/19/2022

3 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.060 D	999	360
VERT(CL):	0.111 D	999	240
HORZ(LL):	0.014 K	-	-
HORZ(TL):	0.026 K	-	-

Creep Factor: 2.0
Max TC CSI: 0.054
Max BC CSI: 0.283
Max Web CSI: 0.291

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	1981	/-	/-	/-	/125	/-
K	2325	/-	/-	/-	/158	/-

Wind reactions based on MWFRS
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
K Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings Q & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	72	- 1106	E - F	163	- 2215
B - C	72	- 1102	F - G	98	- 1390
C - D	123	- 1792	G - H	98	- 1390
D - E	163	- 2215			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	1751	- 119	M - L	1836	- 133
O - N	1751	- 119	L - K	768	- 54
N - M	2024	- 144			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - A	40	- 620	F - L	50	- 652
A - P	1188	- 77	L - H	908	- 65
P - C	55	- 752	H - K	74	- 1041
M - F	554	- 44			

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 9.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	70 plf at	0.29 to	70 plf at	20.68
BC: From	60 plf at	0.00 to	60 plf at	21.14

BC: 1611 lb Conc. Load at 12.90

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.39	1.34	13.80	3.32
20.68	0.00	20.39	1.34	13.80	3.32

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

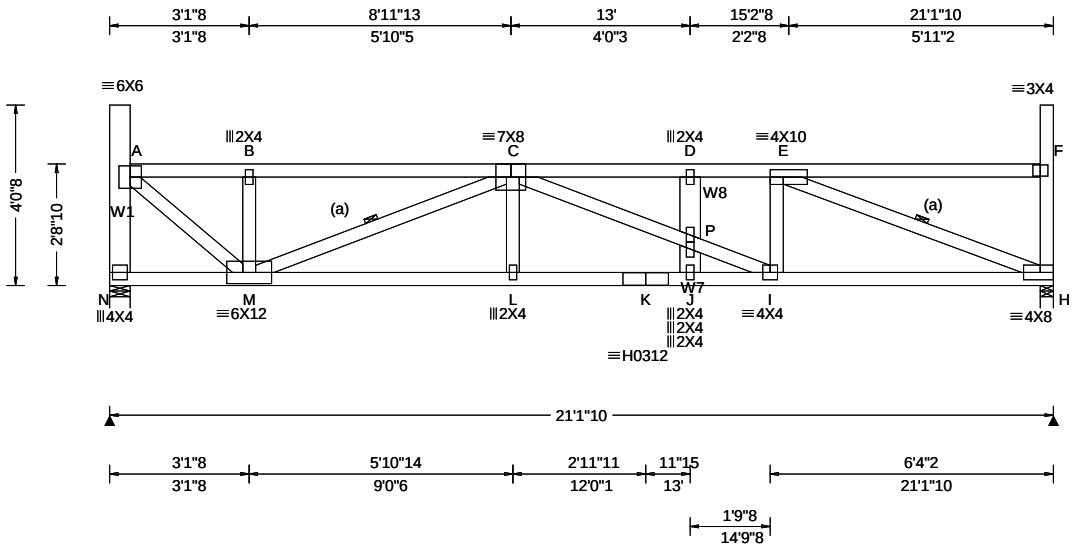
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36971 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T02	Cust: R 9316 JRef:1XfO93160003 T165 DrwNo: 139.22.0948.26067 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.138	D	999	360
VERT(CL): 0.256	D	990	240
HORZ(LL): 0.036	H	-	-
HORZ(TL): 0.066	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.439
Max BC CSI: 0.523
Max Web CSI: 0.606

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1340	/-	/-	/640	/77	/121
H	1352	/-	/-	/645	/79	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.9 (Truss)
H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	137	- 1624	C - D	147	- 2651
B - C	136	- 1621	D - E	147	- 2651

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	3043	- 237	J - I	3043	- 237
L - K	3043	- 237	I - H	2579	- 164
K - J	3043	- 237			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	81	- 1286	P - I	95	- 436
A - M	1934	- 123	I - E	605	- 3
M - C	127	- 1537	E - H	176	- 2736
C - P	94	- 420			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.32	13.12	3.16
20.84	0.00	20.39	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

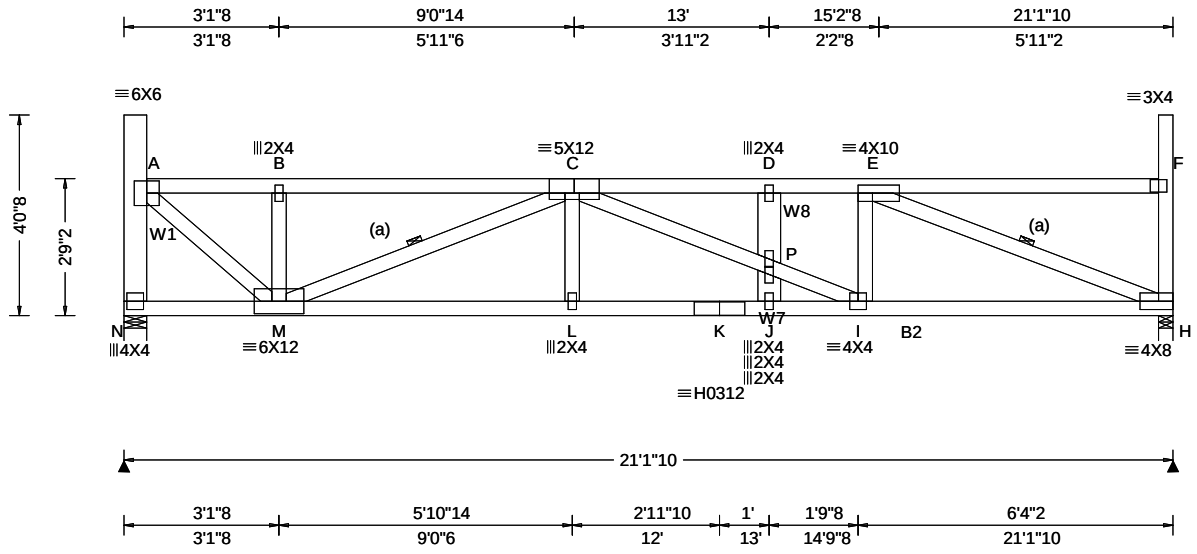
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36972 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T03	Cust: R 9316 JRef:1XfO93160003 T168 DrwNo: 139.22.0948.31583 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.142 D	999	360
VERT(CL):	0.265 D	957	240
HORZ(LL):	0.040 H	-	-
HORZ(TL):	0.075 H	-	-

Creep Factor: 2.0
Max TC CSI: 0.440
Max BC CSI: 0.996
Max Web CSI: 0.600

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1342	/-	/-	/640	/78	/120
H	1353	/-	/-	/644	/80	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 2.1 (Truss)
H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	135	- 1601	C - D	146	- 2612
B - C	135	- 1598	D - E	146	- 2612

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2997	- 236	J - I	2997	- 236
L - K	2997	- 236	I - H	2541	- 163
K - J	2997	- 236			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	82	- 1290	P - I	93	- 431
A - M	1919	- 123	I - E	605	- 3
M - C	126	- 1516	E - H	174	- 2703
C - P	92	- 413			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.28	11.74	2.83
20.84	0.00	20.39	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

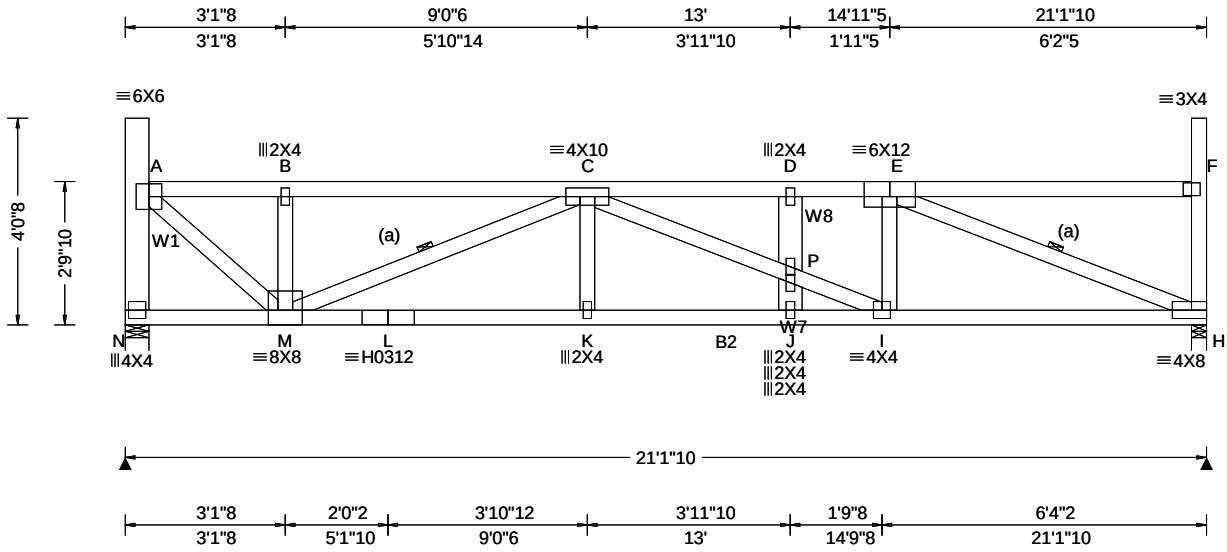
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36973 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T04	Cust: R 9316 JRef:1XfO93160003 T134 DrwNo: 139.22.0948.36433 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.132	D	999	360
VERT(CL): 0.236	D	999	240
HORZ(LL): 0.036	H	-	-
HORZ(TL): 0.067	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.440
Max BC CSI: 0.919
Max Web CSI: 0.592

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1342	/-	/-	/639	/78	/119
H	1353	/-	/-	/644	/80	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 2.1 (Truss)
H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	133	- 1571	C - D	168	- 2565
B - C	132	- 1567	D - E	168	- 2565

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2953	- 233	J - I	2953	- 233
L - K	2953	- 233	I - H	2494	- 161
K - J	2953	- 233			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	83	- 1287	P - I	92	- 685
A - M	1894	- 121	I - E	611	- 3
M - C	124	- 1506	E - H	171	- 2659
C - P	91	- 659			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.24	10.35	2.50
20.84	0.00	20.39	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

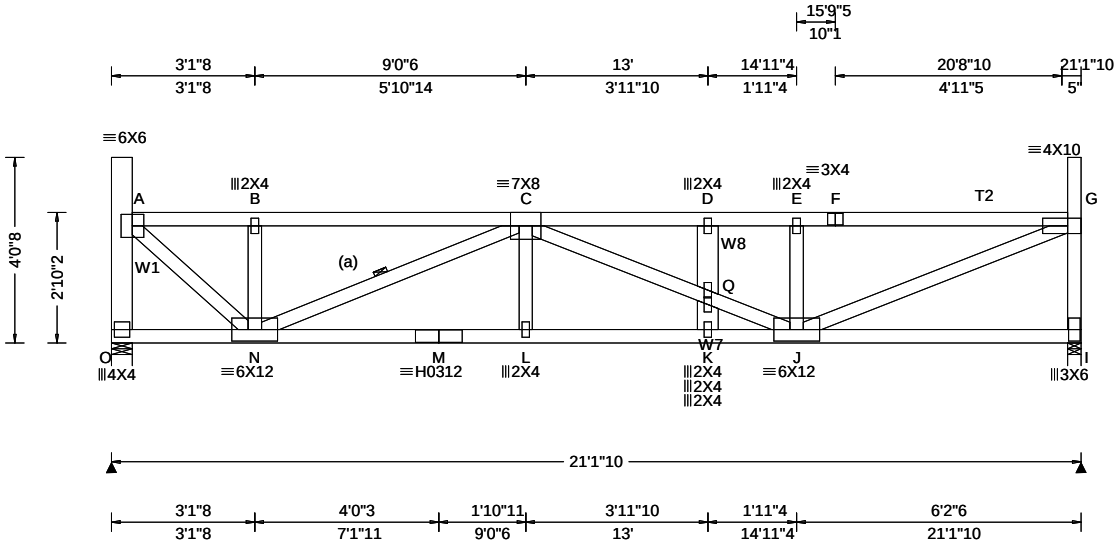
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37042 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T05	Cust: R 9316 JRef:1XfO93160003 T167 DrwNo: 139.22.0948.45297 / NDW 05/19/2022	



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.153	D	999	360
VERT(CL): 0.283	D	895	240
HORZ(LL): 0.034	A	-	-
HORZ(TL): 0.063	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.626
Max BC CSI: 0.730
Max Web CSI: 0.771

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	1435	/-	/-	/-	/121	/-
I	1602	/-	/-	/-	/245	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 2.1 (Truss)
I Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	144	- 1659	D - E	444	- 3020
B - C	144	- 1656	E - F	444	- 3017
C - D	444	- 3020	F - G	444	- 3025

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	3240	- 340	L - K	3240	- 340
M - L	3240	- 340	K - J	3240	- 340

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	119	- 1381	Q - J	0	- 448
A - N	2014	- 175	J - G	3143	- 461
N - C	214	- 1726	G - I	193	- 1404
C - Q	0	- 432			

Lumber
Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 20.84
BC: From 60 plf at 0.00 to 60 plf at 13.29
BC: From 30 plf at 13.29 to 30 plf at 21.14
BC: 144 lb Conc. Load at 13.29,15.07,17.07,19.07

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.20	8.97	2.16
20.84	0.00	20.39	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

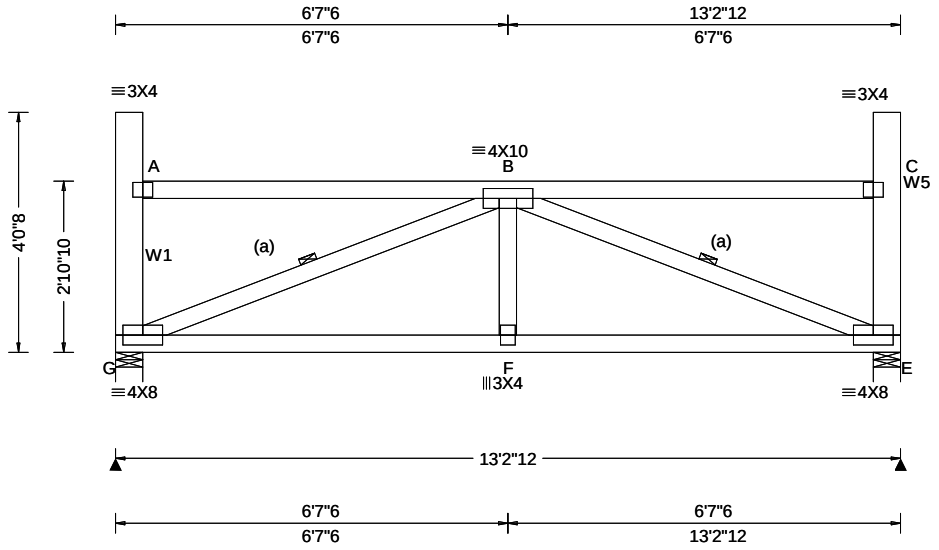
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36974 SPEC FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T06	Cust: R 9316 JRef:1XfO93160003 T149 DrwNo: 139.22.0948.49100 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.043	F	999	360
VERT(CL): 0.080	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.028	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.546
Max BC CSI: 0.744
Max Web CSI: 0.315

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	828	/-	/-	/408	/59	/116
E	828	/-	/-	/408	/59	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1311	- 166	F - E	1311	- 166

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	179	- 1334	B - E	176	- 1334
B - F	440	0			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.59	1.83
12.77	0.00	20.00	1.16	7.59	1.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

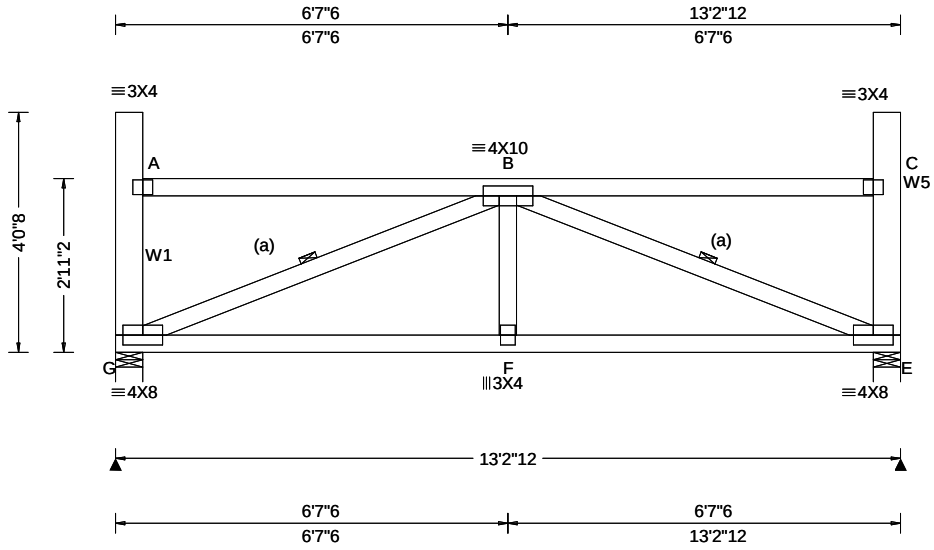
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36975 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T07	Cust: R 9316 JRef:1XfO93160003 T146 DrwNo: 139.22.0948.54373 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.042 F	999	360
VERT(CL):	0.078 F	999	240
HORZ(LL):	0.015 E	-	-
HORZ(TL):	0.028 E	-	-

Creep Factor: 2.0
Max TC CSI: 0.547
Max BC CSI: 0.741
Max Web CSI: 0.312

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	828	/-	/-	/407	/59	/115
E	828	/-	/-	/407	/59	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1291	- 164	F - E	1291	- 164

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	175	- 1316	B - E	173	- 1316
B - F	440	0			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.11	6.20	1.50
12.77	0.00	20.00	1.11	6.20	1.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

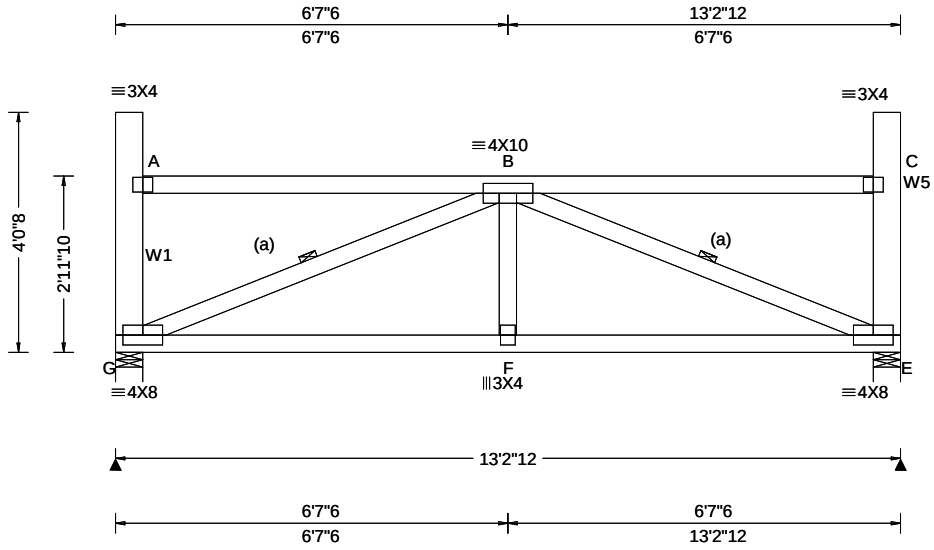
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36976 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T08	Cust: R 9316 JRef:1XfO93160003 T150 DrwNo: 139.22.0948.59223 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.041	F	999	360
VERT(CL): 0.076	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.027	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.548
Max BC CSI: 0.738
Max Web CSI: 0.309

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	828	/-	/-	/407	/59	/114
E	828	/-	/-	/407	/59	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1271	- 162	F - E	1271	- 162

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	171	- 1299	B - E	169	- 1299
B - F	441	0			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

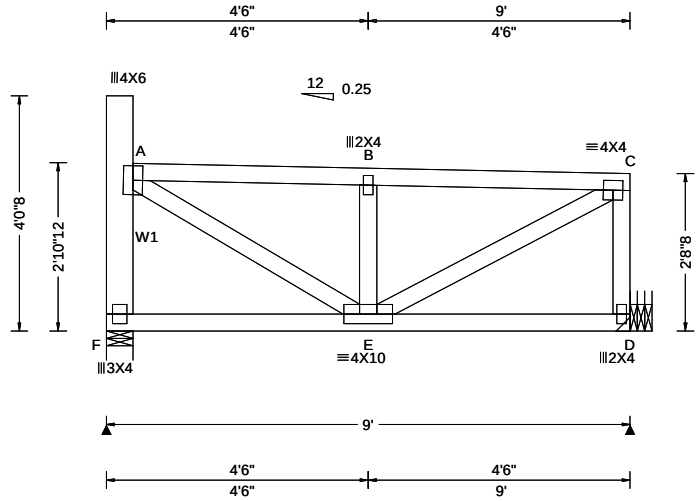
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 37047 MONO FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T10	Cust: R 9316 JRef:1XfO93160003 T1 DrwNo: 139.22.0949.31840 / NDW 05/19/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.46 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.015	B	999	360
VERT(CL): 0.029	B	999	240
HORZ(LL): 0.004	A	-	-
HORZ(TL): 0.007	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.128
Max BC CSI: 0.459
Max Web CSI: 0.235

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	1371	/-	/-	/-	/183	/-
D	1611	/-	/-	/-	/155	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = - Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	100	- 859	B - C	100	- 860

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
F - A	54	- 490	E - C	959	- 112
A - E	909	- 102	C - D	58	- 507

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 3.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 35 plf at 0.46 to 35 plf at 9.00
BC: From 60 plf at 0.00 to 60 plf at 2.33
BC: From 30 plf at 2.33 to 30 plf at 9.00
BC: 762 lb Conc. Load at 2.33
BC: 527 lb Conc. Load at 4.33, 6.33, 8.33

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.84

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

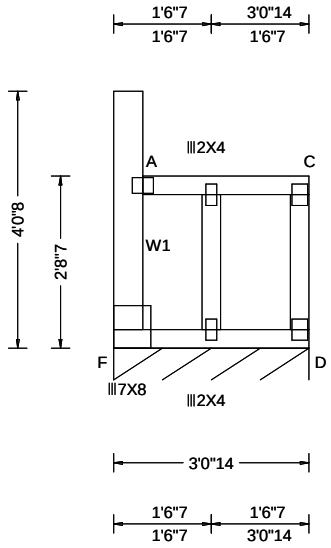
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36978 GABL FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T11	Cust: R 9316 JRef:1XfO93160003 T187 DrwNo: 139.22.1000.04690 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.007 A	999	360
VERT(CL):	0.009 A	999	240
HORZ(LL):	0.117 A	-	-
HORZ(TL):	0.136 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.116
Max BC CSI: 0.326
Max Web CSI: 0.142

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	120	/-	/-	/56	/5	/30

Wind reactions based on MWFRS
D Brg Wid = 36.9 Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.34	13.63	2.61

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

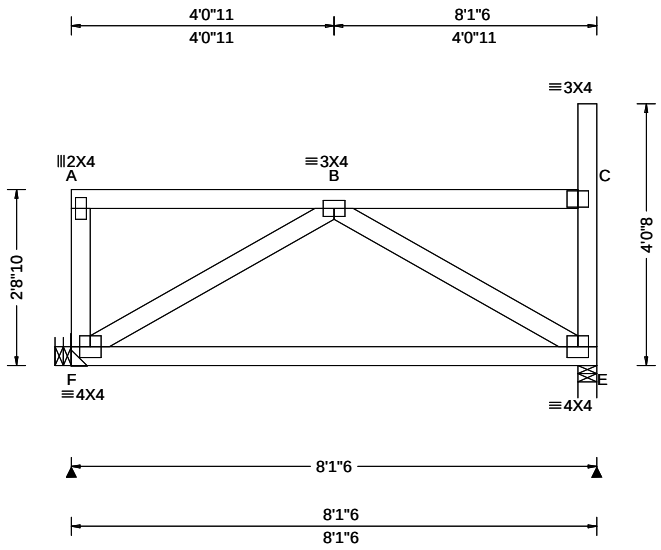
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36979 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T12	Cust: R 9316 JRef:1XfO93160003 T110 DrwNo: 139.22.1000.21780 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.217
Max BC CSI: 0.611
Max Web CSI: 0.204

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/46	/93
E	507	/-	/-	/255	/47	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

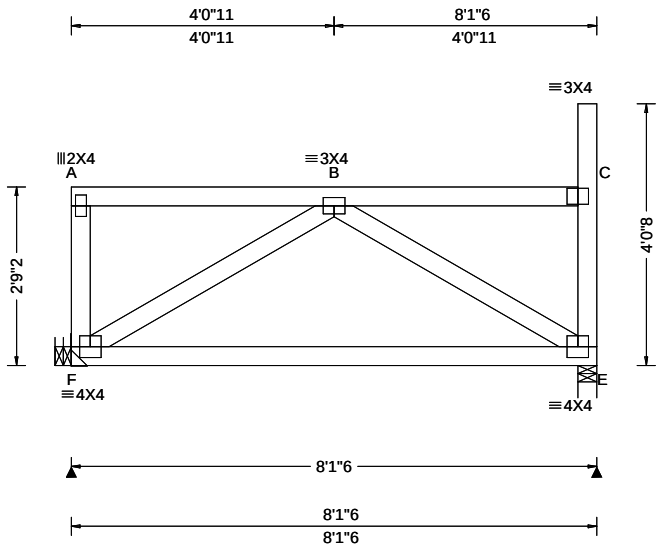
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36980 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T13	Cust: R 9316 JRef:1XfO93160003 T229 DrwNo: 139.22.1000.44667 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.217
Max BC CSI: 0.611
Max Web CSI: 0.204

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/46	/92
E	507	/-	/-	/255	/47	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

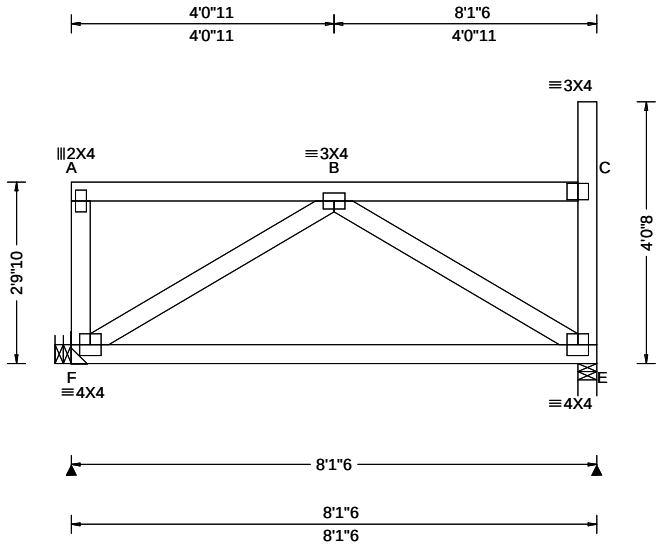
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36981 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T14	Cust: R 9316 JRef:1XfO93160003 T206 DrwNo: 139.22.1000.47867 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.007	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.218
Max BC CSI: 0.610
Max Web CSI: 0.203

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/46	/92
E	507	/-	/-	/255	/47	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

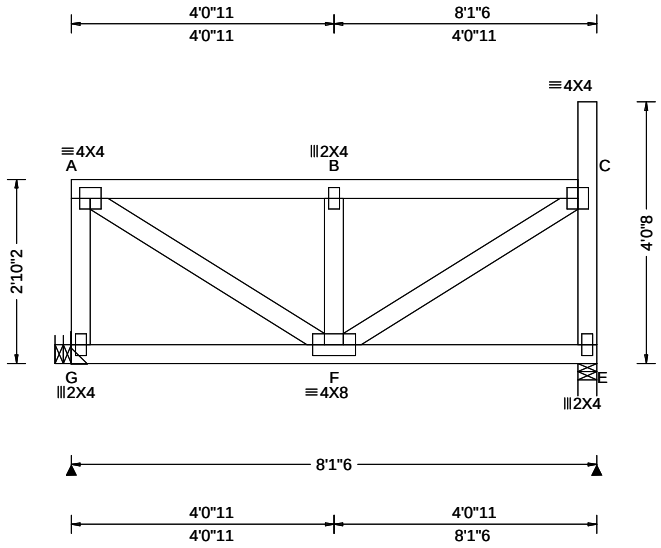
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37044 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T15	Cust: R 9316 JRef:1XfO93160003 T212 DrwNo: 139.22.1000.52200 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.012	B	999	360
VERT(CL): 0.021	B	999	240
HORZ(LL): -0.002	C	-	-
HORZ(TL): 0.004	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.239
Max BC CSI: 0.340
Max Web CSI: 0.190

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	762	/-	/-	/-	/172	/-
E	607	/-	/-	/-	/114	/-

Wind reactions based on MWFRS
G Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	138	- 667	B - C	138	- 671

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	94	- 528	F - C	745	- 155
A - F	773	- 160	C - E	93	- 510

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 7.82
BC: From 30 plf at 0.00 to 30 plf at 8.11
BC: 144 lb Conc. Load at 0.27, 2.05, 4.05, 6.05

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

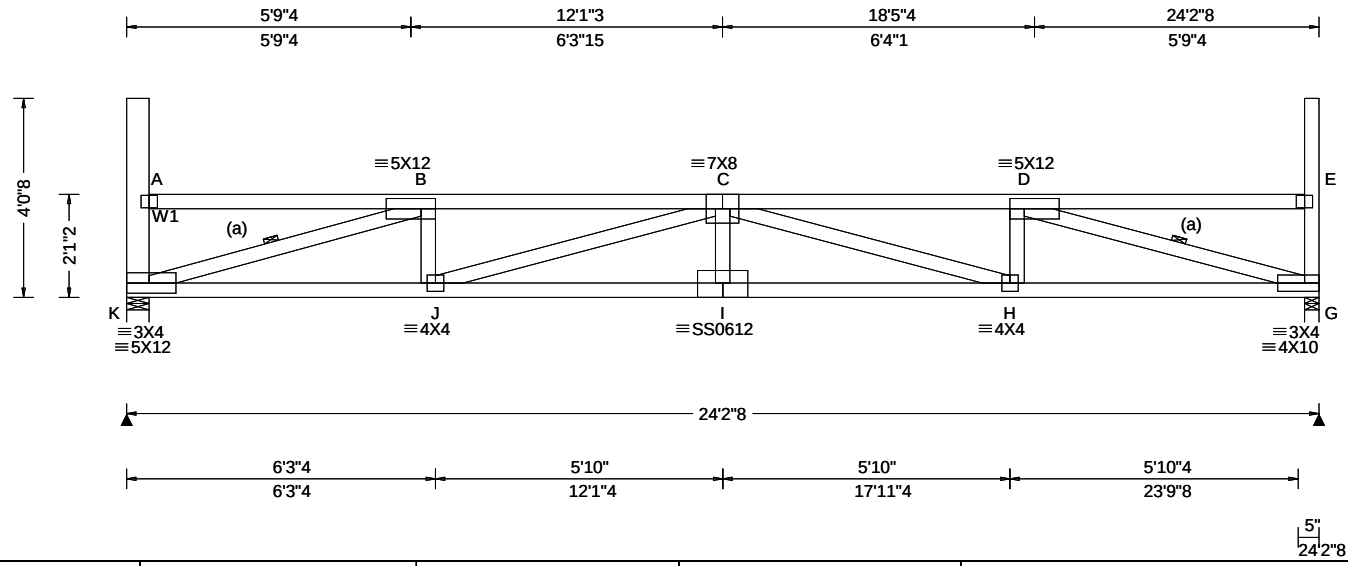
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36982 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T17	Cust: R 9316 JRef:1XfO93160003 T175 DrwNo: 139.22.1001.03370 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.387	I	750	360
VERT(CL): 0.720	I	403	240
HORZ(LL): 0.078	G	-	-
HORZ(TL): 0.146	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.758
Max BC CSI: 0.718
Max Web CSI: 0.883

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/733	/84	/139
G	1553	/-	/-	/738	/86	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	254	- 4208	C - D	254	- 4222

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4087	- 367	I - H	5418	- 327
J - I	5418	- 327	H - G	4098	- 219

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	257	- 4161	C - H	143	- 1253
B - J	759	- 2	H - D	774	- 2
J - C	144	- 1266	D - G	254	- 4221

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.95	33.87	4.20
23.92	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.39" DL: 0.33". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

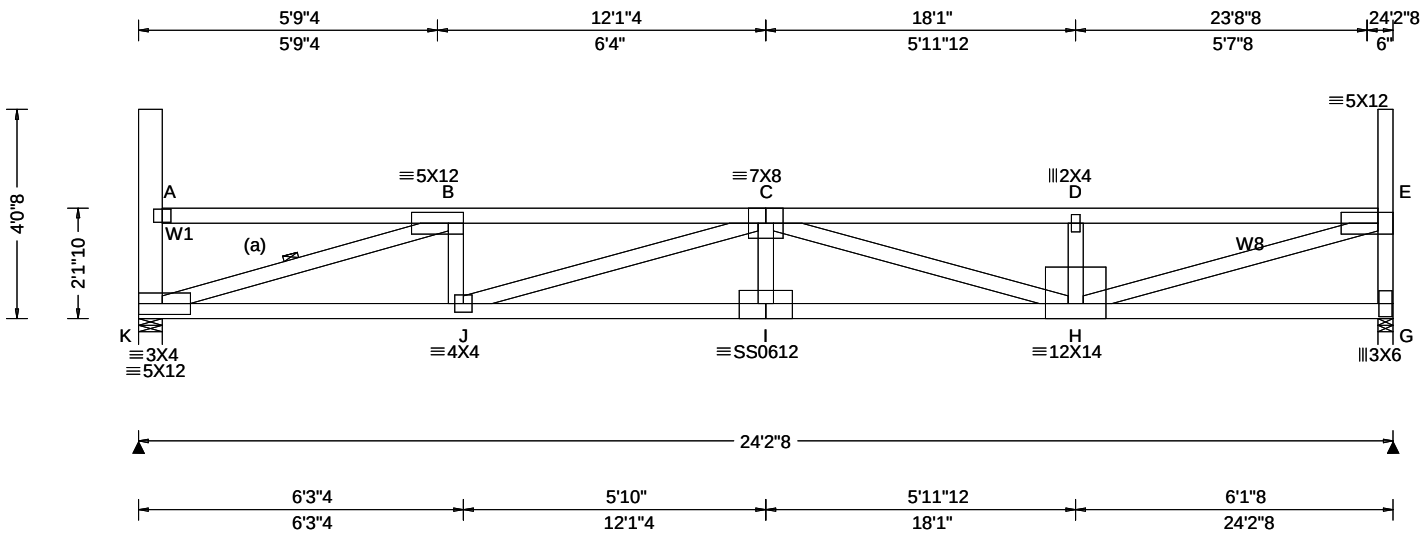
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37054 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T18	Cust: R 9316 JRef:1XfO93160003 T180 DrwNo: 139.22.1001.08417 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.372 I	780	360
VERT(CL):	0.692 I	419	240
HORZ(LL):	0.061 A	-	-
HORZ(TL):	0.114 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.939
Max BC CSI: 0.711
Max Web CSI: 0.846

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1542	/-	/-	/733	/85	/138
G	1553	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	249	- 4117	D - E	253	- 4107
C - D	252	- 4102			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3998	- 361	I - H	5298	- 320
J - I	5298	- 320			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	252	- 4080	C - H	136	- 1252
B - J	758	- 2	H - E	4152	- 254
J - C	140	- 1239	E - G	100	- 1392

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;
W8 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.91	32.49	4.38
23.92	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.37" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

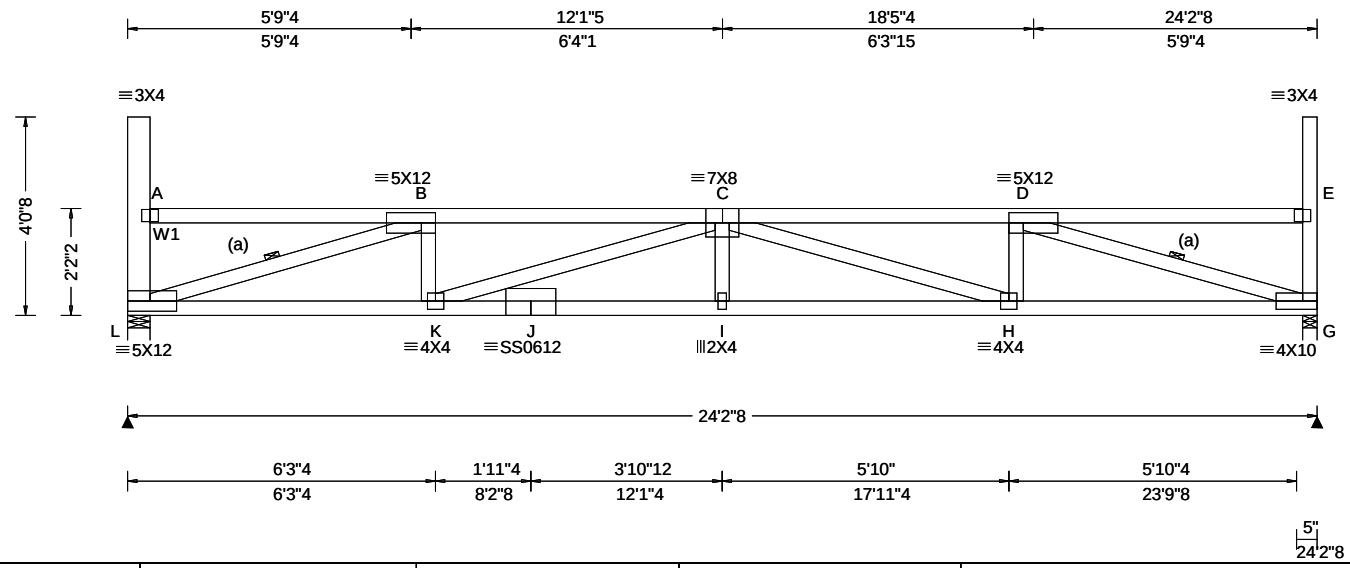
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36984 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T19	Cust: R 9316 JRef:1XfO93160003 T171 DrwNo: 139.22.1001.14067 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.356 I	817	360
VERT(CL):	0.661 I	439	240
HORZ(LL):	0.075 G	-	-
HORZ(TL):	0.139 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.703
Max BC CSI: 0.691
Max Web CSI: 0.853

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/85	/136
G	1553	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	244	- 4029	C - D	244	- 4040

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3913	- 354	I - H	5185	- 316
K - J	5185	- 316	H - G	3922	- 213
J - I	5185	- 316			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	247	- 4002	C - H	136	- 1204
B - K	760	- 2	H - D	774	- 1
K - C	137	- 1216	D - G	244	- 4056

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

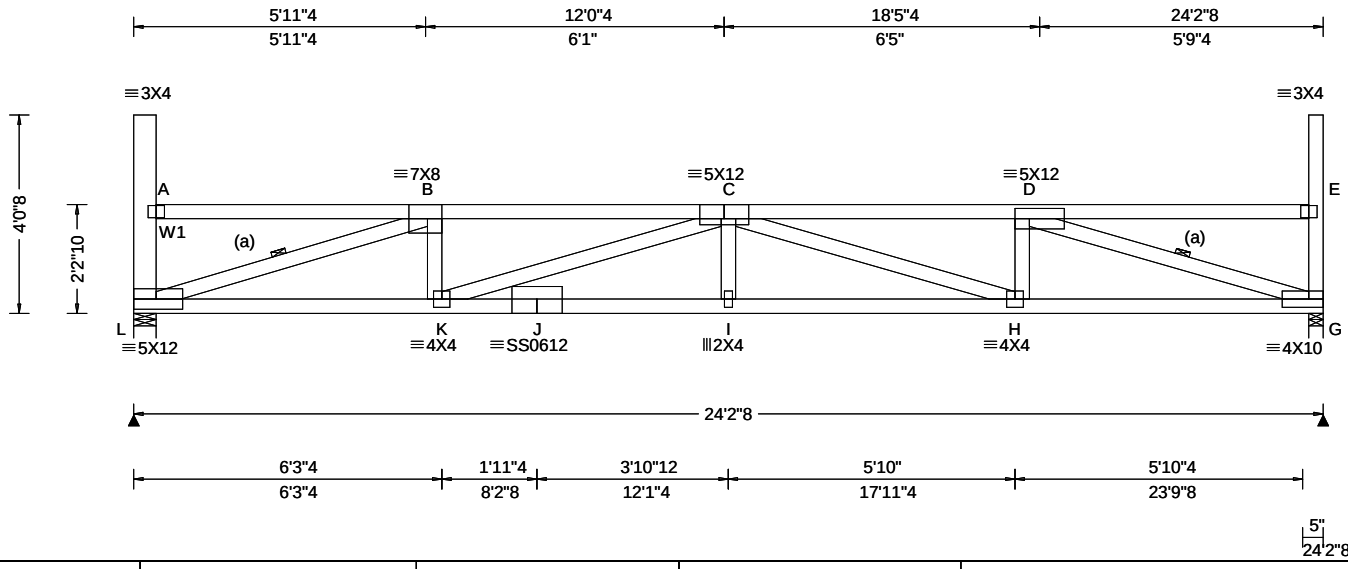
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36985 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T20	Cust: R 9316 JRef:1XfO93160003 T179 DrwNo: 139.22.1001.40657 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.89 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.341	I	851	360
VERT(CL): 0.634	I	457	240
HORZ(LL): 0.073	G	-	-
HORZ(TL): 0.137	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.680
Max BC CSI: 0.681
Max Web CSI: 0.839

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/85	/135
G	1553	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	240	-3945	C - D	240	-3955

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3831	-349	I - H	5076	-311
K - J	5076	-311	H - G	3840	-211
J - I	5076	-311			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	243	-3927	C - H	133	-1180
B - K	760	-2	H - D	774	-1
K - C	134	-1191	D - G	240	-3980

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.82	29.72	4.79
23.92	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

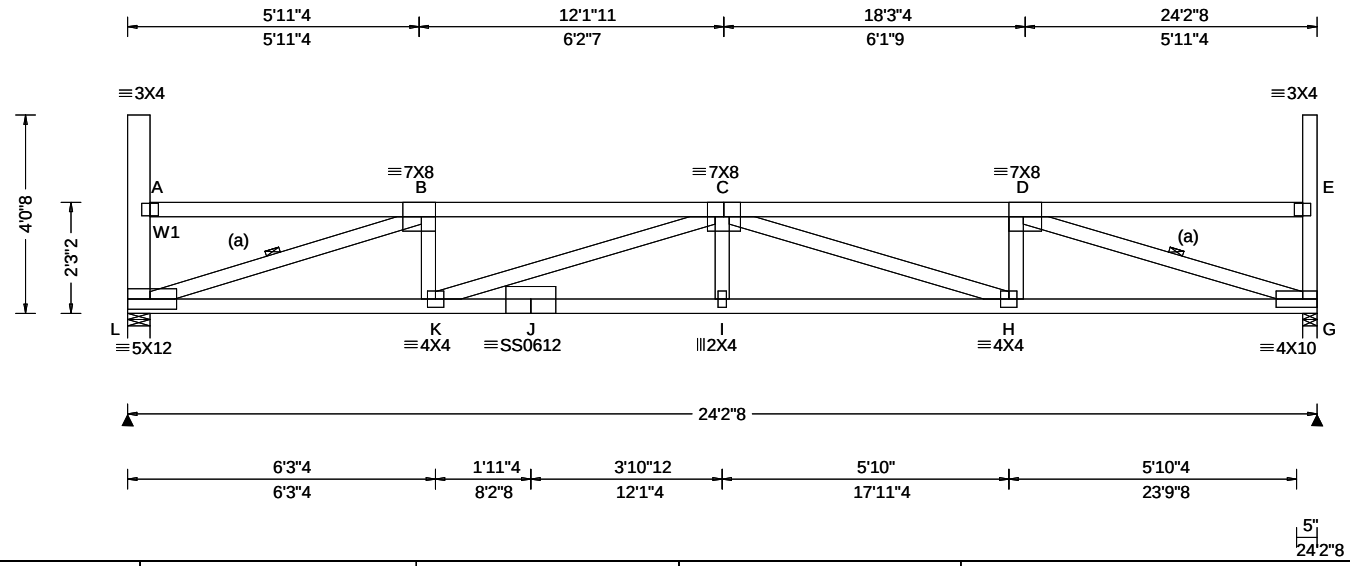
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36986 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T21	Cust: R 9316 JRef:1XfO93160003 T183 DrwNo: 139.22.1001.45153 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.93 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.327	I	887	360
VERT(CL): 0.608	I	477	240
HORZ(LL): 0.072	G	-	-
HORZ(TL): 0.134	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.656
Max BC CSI: 0.671
Max Web CSI: 0.824

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1540	/-	/-	/732	/85	/134
G	1552	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	211	-3859	C - D	211	-3870

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3748	-342	I - H	4963	-304
K - J	4963	-304	H - G	3757	-207
J - I	4963	-304			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	238	-3851	C - H	129	-1153
B - K	759	-1	H - D	773	0
K - C	130	-1164	D - G	235	-3902

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.33" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

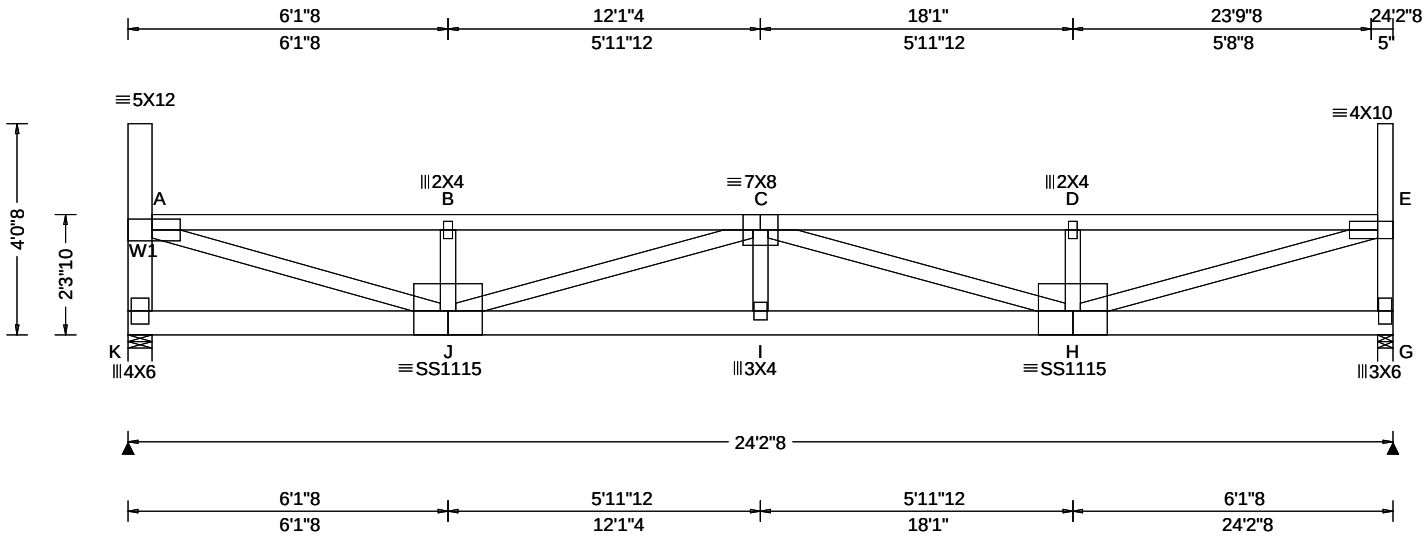
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36987 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T22	Cust: R 9316 JRef:1XfO93160003 T174 DrwNo: 139.22.1001.49203 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.97 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.324 I	897	360
VERT(CL):	0.602 I	482	240
HORZ(LL):	0.051 A	-	-
HORZ(TL):	0.095 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.894
Max BC CSI: 0.641
Max Web CSI: 0.959

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1542	/-	/-	/732	/85	/129
G	1553	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.4 (Truss)
G Brg Wid = 3.5 Min Req = 2.4 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	217	- 3844	C - D	216	- 3846
B - C	216	- 3839	D - E	217	- 3851

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5052	- 306	I - H	5052	- 306

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	97	- 1351	C - H	114	- 1267
A - J	3839	- 237	H - E	3910	- 239
J - C	120	- 1274	E - G	99	- 1369
C - I	376	0			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.74	26.95	5.28
23.92	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

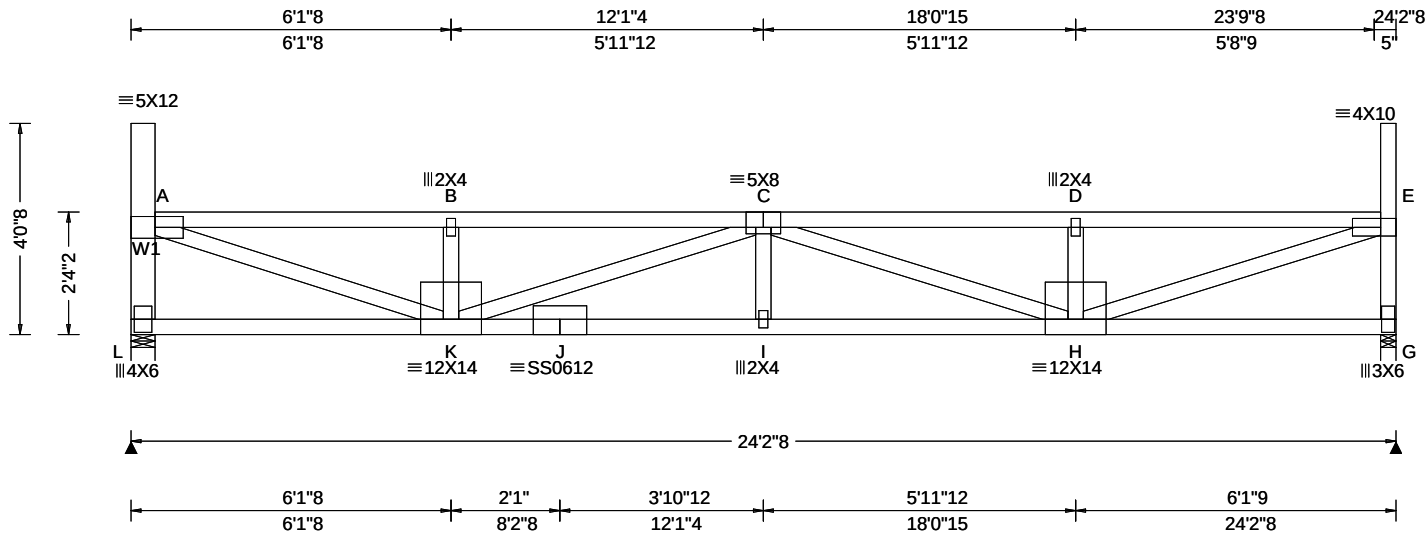
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36988 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T23	Cust: R 9316 JRef:1XfO93160003 T184 DrwNo: 139.22.1001.55453 / NDW 05/19/2022



Loading Criteria (psf)

TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria

Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.318	I	914	360
VERT(CL): 0.591	I	491	240
HORZ(LL): 0.054	A	-	-
HORZ(TL): 0.100	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.862
Max BC CSI: 0.651
Max Web CSI: 0.924

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/85	/132
G	1553	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	209	- 3686	C - D	209	- 3691
B - C	209	- 3681	D - E	209	- 3696

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4772	- 295	I - H	4772	- 295
J - I	4772	- 295			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	99	- 1372	C - H	111	- 1143
A - K	3690	- 231	H - E	3767	- 231
K - C	114	- 1153	E - G	101	- 1392

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.70	25.57	5.57
23.92	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

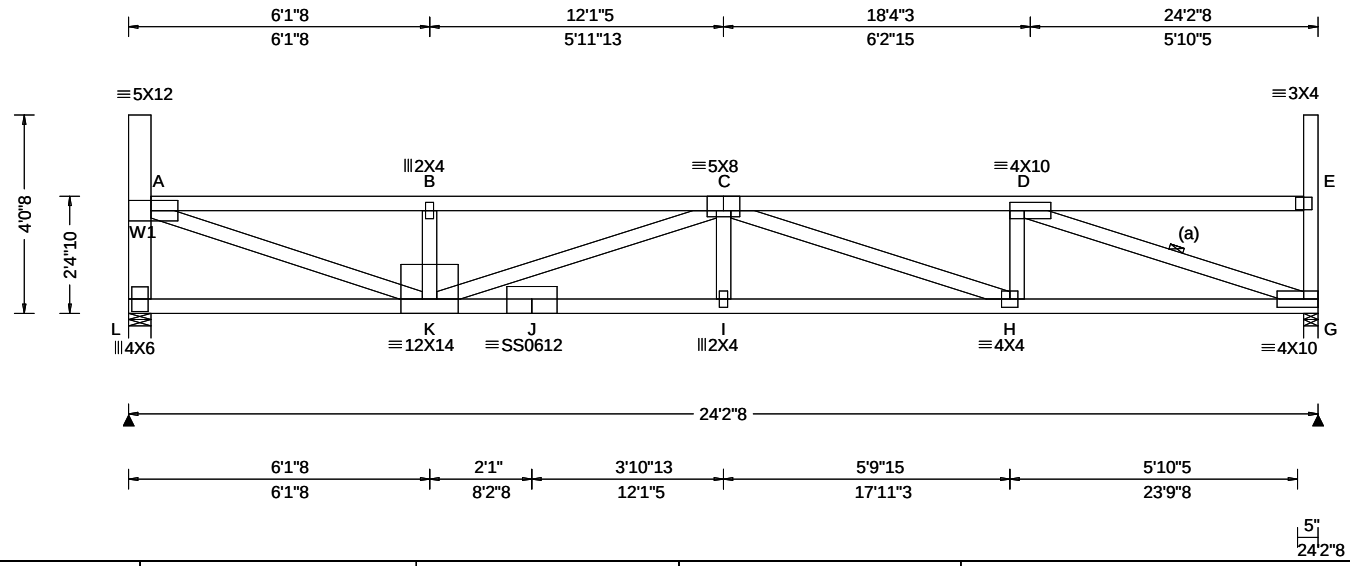
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36989 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T24	Cust: R 9316 JRef:1XfO93160003 T176 DrwNo: 139.22.1002.03703 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.298	I	973	360
VERT(CL): 0.555	I	523	240
HORZ(LL): 0.054	G	-	-
HORZ(TL): 0.100	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.822
Max BC CSI: 0.647
Max Web CSI: 0.890

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/85	/131
G	1553	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	206	- 3615	C - D	202	- 3649
B - C	205	- 3610			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4678	- 292	I - H	4678	- 292
J - I	4678	- 292	H - G	3542	- 202

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1373	C - H	112	- 1093
A - K	3626	- 227	H - D	772	0
K - C	112	- 1131	D - G	225	- 3704

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.26". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

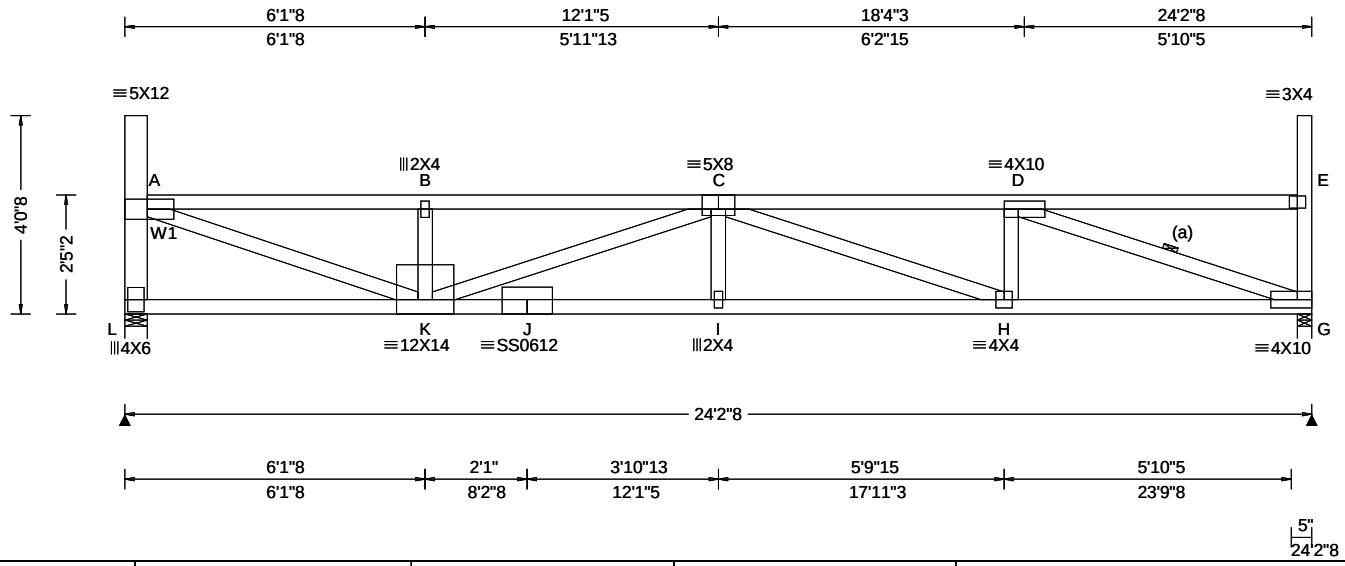
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36990 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T25	Cust: R 9316 JRef:1XfO93160003 T172 DrwNo: 139.22.1012.18290 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.287 I	999	360
VERT(CL):	0.534 I	543	240
HORZ(LL):	0.053 G	-	-
HORZ(TL):	0.098 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.793
Max BC CSI: 0.641
Max Web CSI: 0.875

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/85	/129
G	1553	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	202	- 3547	C - D	198	- 3579
B - C	201	- 3542			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4587	- 288	I - H	4587	- 288
J - I	4587	- 288	H - G	3475	- 199

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1373	C - H	109	- 1074
A - K	3564	- 223	H - D	772	0
K - C	110	- 1110	D - G	221	- 3642

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.61	22.80	5.50
23.92	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

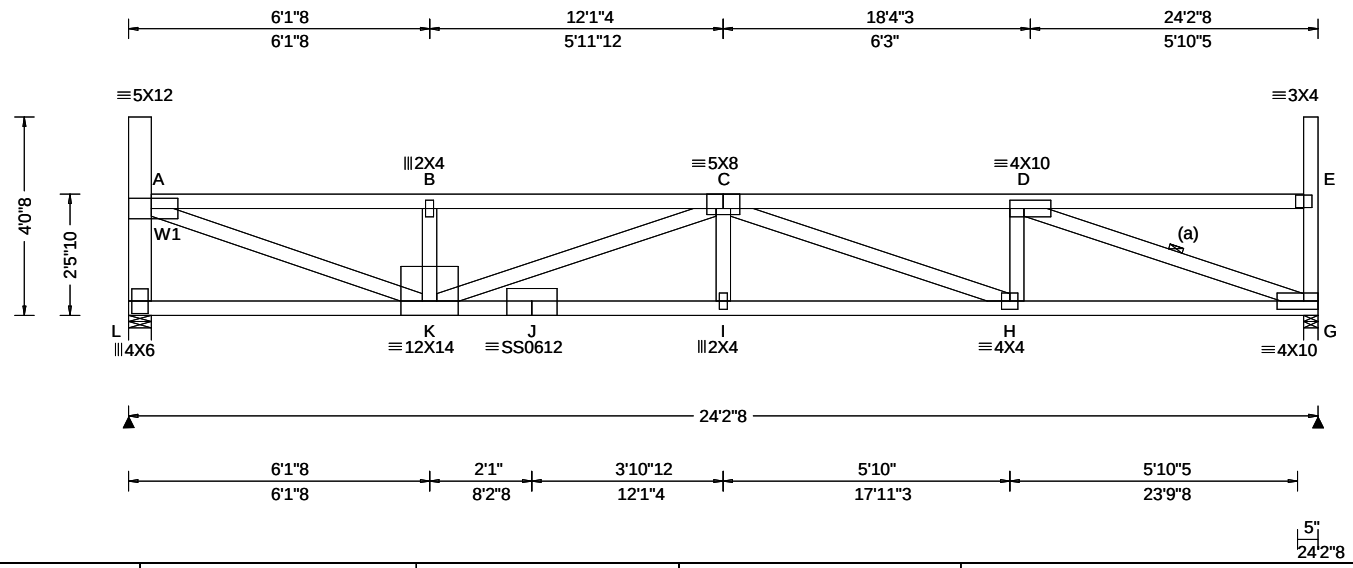
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36991 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T26	Cust: R 9316 JRef:1XfO93160003 T173 DrwNo: 139.22.1012.25377 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.277 I	999	360
VERT(CL):	0.515 I	563	240
HORZ(LL):	0.052 G	-	-
HORZ(TL):	0.096 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.754
Max BC CSI: 0.635
Max Web CSI: 0.860

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/86	/128
G	1553	/-	/-	/737	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	199	- 3480	C - D	195	- 3512
B - C	198	- 3475			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4501	- 284	I - H	4501	- 284
J - I	4501	- 284	H - G	3410	- 197

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1374	C - H	107	- 1055
A - K	3504	- 219	H - D	772	0
K - C	107	- 1091	D - G	218	- 3582

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

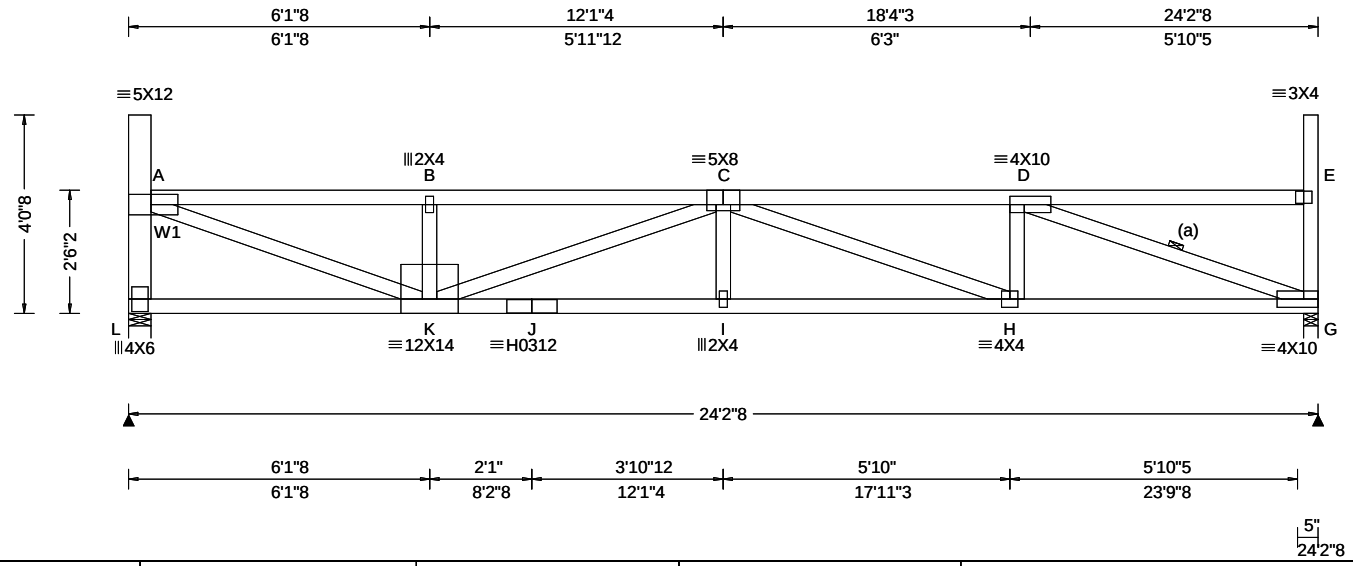
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36992 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T27	Cust: R 9316 JRef:1XfO93160003 T157 DrwNo: 139.22.1012.30043 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.268 I	999	360
VERT(CL):	0.497 I	584	240
HORZ(LL):	0.051 G	-	-
HORZ(TL):	0.094 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.719
Max BC CSI: 0.629
Max Web CSI: 0.846

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/86	/127
G	1553	/-	/-	/737	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	196	- 3416	C - D	192	- 3448
B - C	195	- 3412			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4417	- 280	I - H	4417	- 280
J - I	4417	- 280	H - G	3347	- 195

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1374	C - H	105	- 1037
A - K	3447	- 215	H - D	772	0
K - C	105	- 1072	D - G	214	- 3524

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

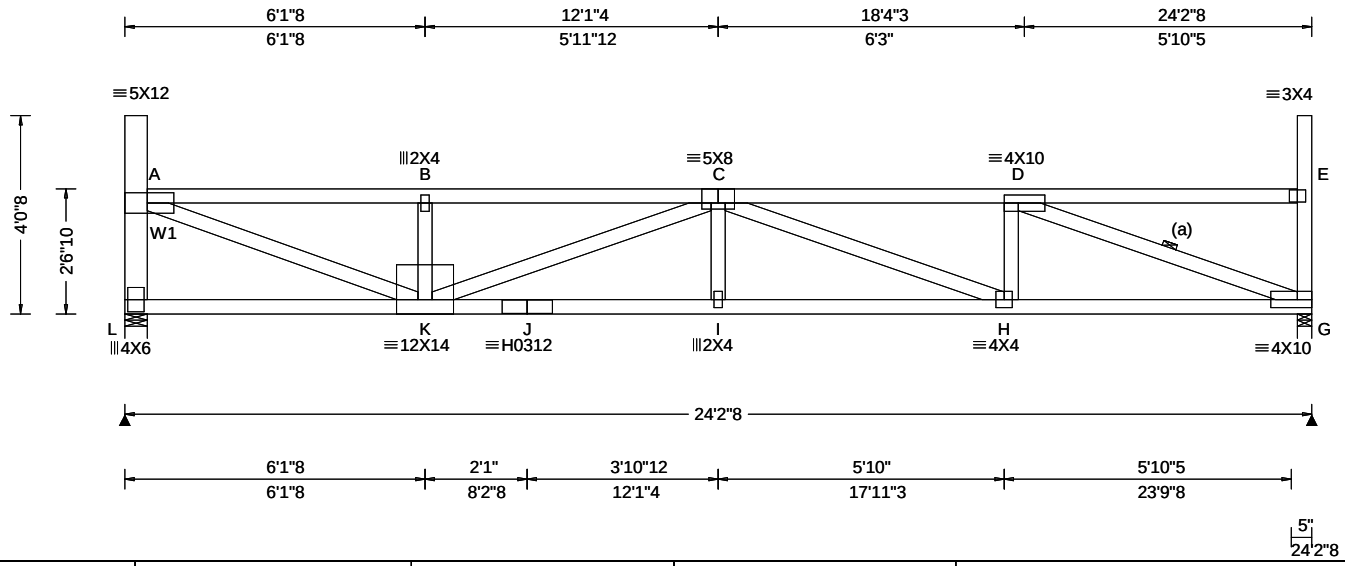
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36993 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T28	Cust: R 9316 JRef:1XfO93160003 T181 DrwNo: 139.22.1012.35600 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.258	I	999	360
VERT(CL): 0.480	I	604	240
HORZ(LL): 0.050	G	-	-
HORZ(TL): 0.093	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.687
Max BC CSI: 0.623
Max Web CSI: 0.832

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/86	/126
G	1553	/-	/-	/736	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	193	- 3355	C - D	189	- 3386
B - C	192	- 3350			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4336	- 276	I - H	4336	- 276
J - I	4336	- 276	H - G	3287	- 193

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1374	C - H	103	- 1020
A - K	3391	- 212	H - D	772	0
K - C	103	- 1054	D - G	211	- 3469

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

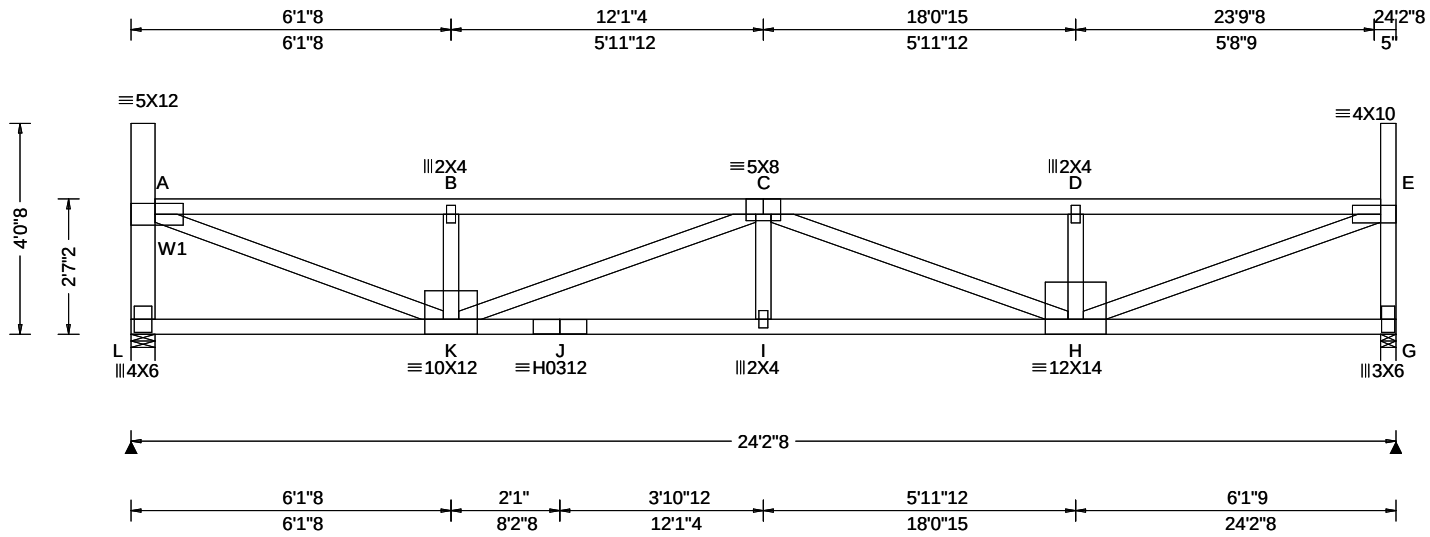
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36994 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T29	Cust: R 9316 JRef:1XfO93160003 T182 DrwNo: 139.22.1012.42393 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.256 I	999	360
VERT(CL):	0.476 I	610	240
HORZ(LL):	0.049 A	-	-
HORZ(TL):	0.090 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.694
Max BC CSI: 0.608
Max Web CSI: 0.836

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/86	/125
G	1553	/-	/-	/736	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	190	- 3295	C - D	189	- 3299
B - C	189	- 3291	D - E	190	- 3304

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4259	- 272	I - H	4259	- 272
J - I	4259	- 272			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	101	- 1374	C - H	97	- 1029
A - K	3338	- 209	H - E	3407	- 209
B - K	80	- 377	D - H	80	- 381
K - C	100	- 1038	E - G	102	- 1394

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.45	17.27	4.16
23.92	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

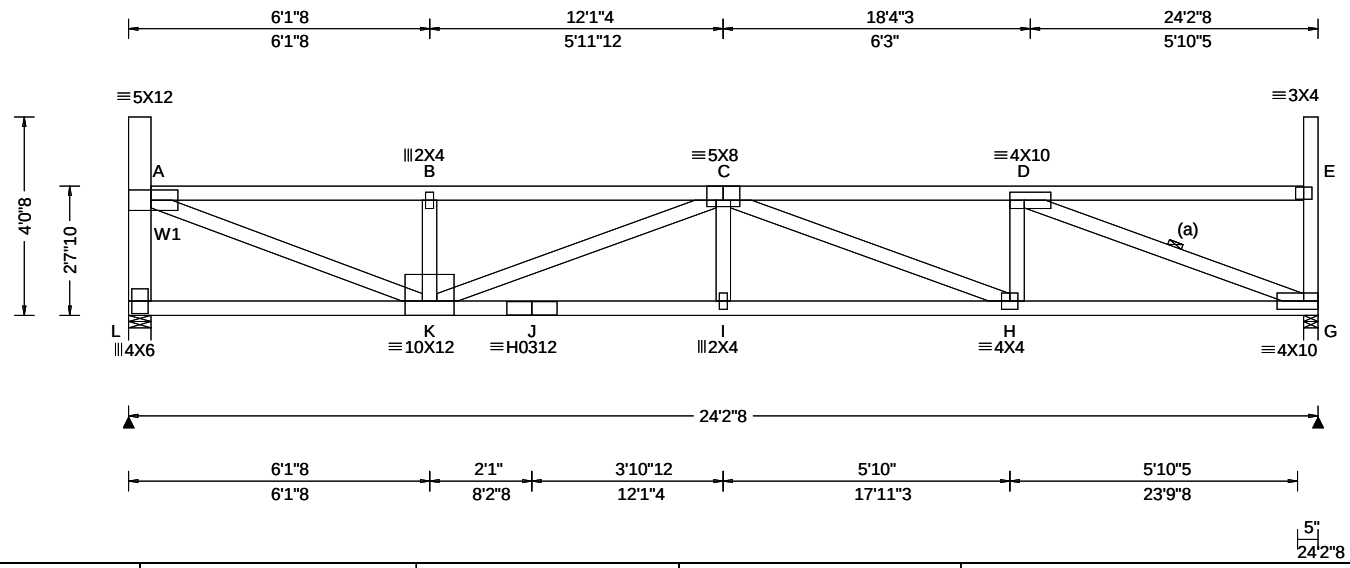
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36995 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T30	Cust: R 9316 JRef:1XfO93160003 T178 DrwNo: 139.22.1012.48447 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.242 I	999	360
VERT(CL):	0.449 I	646	240
HORZ(LL):	0.048 G	-	-
HORZ(TL):	0.089 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.649
Max BC CSI: 0.612
Max Web CSI: 0.806

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/86	/123
G	1553	/-	/-	/736	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	187	- 3238	C - D	183	- 3267
B - C	186	- 3233			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4184	- 269	I - H	4184	- 269
J - I	4184	- 269	H - G	3172	- 189

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	101	- 1375	C - H	98	- 988
A - K	3287	- 205	H - D	772	0
B - K	80	- 377	D - G	205	- 3364
K - C	98	- 1021			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

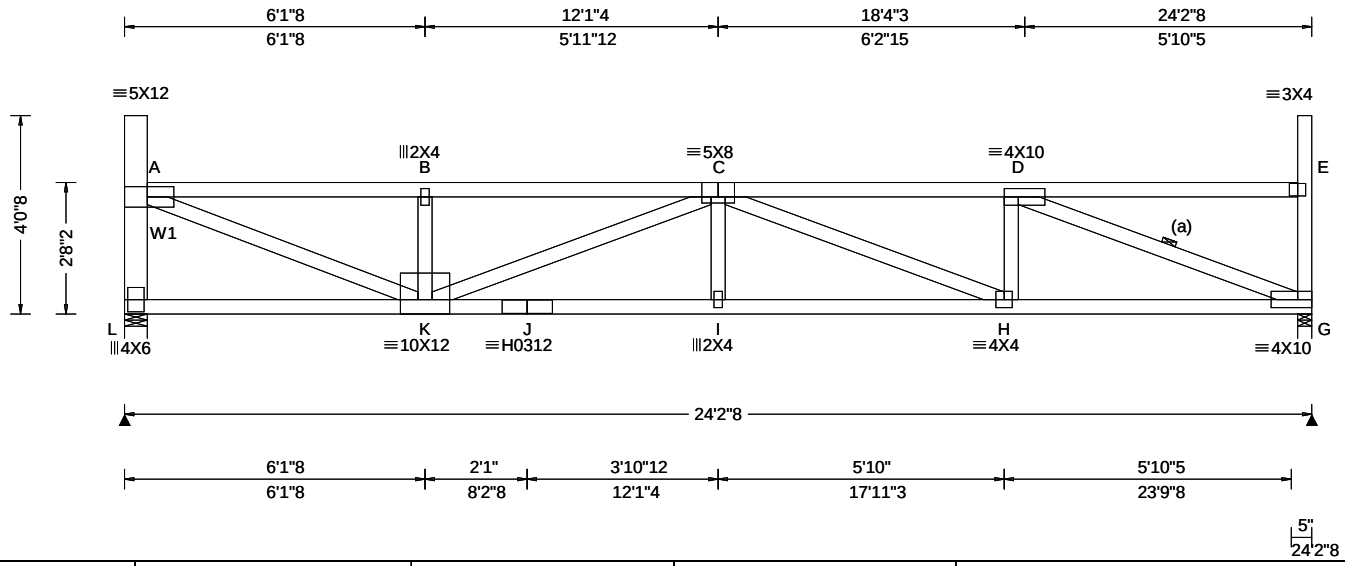
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36996 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T31	Cust: R 9316 JRef:1XfO93160003 T185 DrwNo: 139.22.1012.56007 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.234 I	999	360
VERT(CL):	0.435 I	668	240
HORZ(LL):	0.047 G	-	-
HORZ(TL):	0.088 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.637
Max BC CSI: 0.606
Max Web CSI: 0.794

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/86	/122
G	1553	/-	/-	/736	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	184	- 3183	C - D	180	- 3211
B - C	183	- 3178			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4111	- 266	I - H	4111	- 266
J - I	4111	- 266	H - G	3118	- 187

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	101	- 1375	C - H	96	- 972
A - K	3237	- 202	H - D	772	0
B - K	80	- 379	D - G	202	- 3314
K - C	96	- 1005			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.36	14.50	3.50
23.92	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

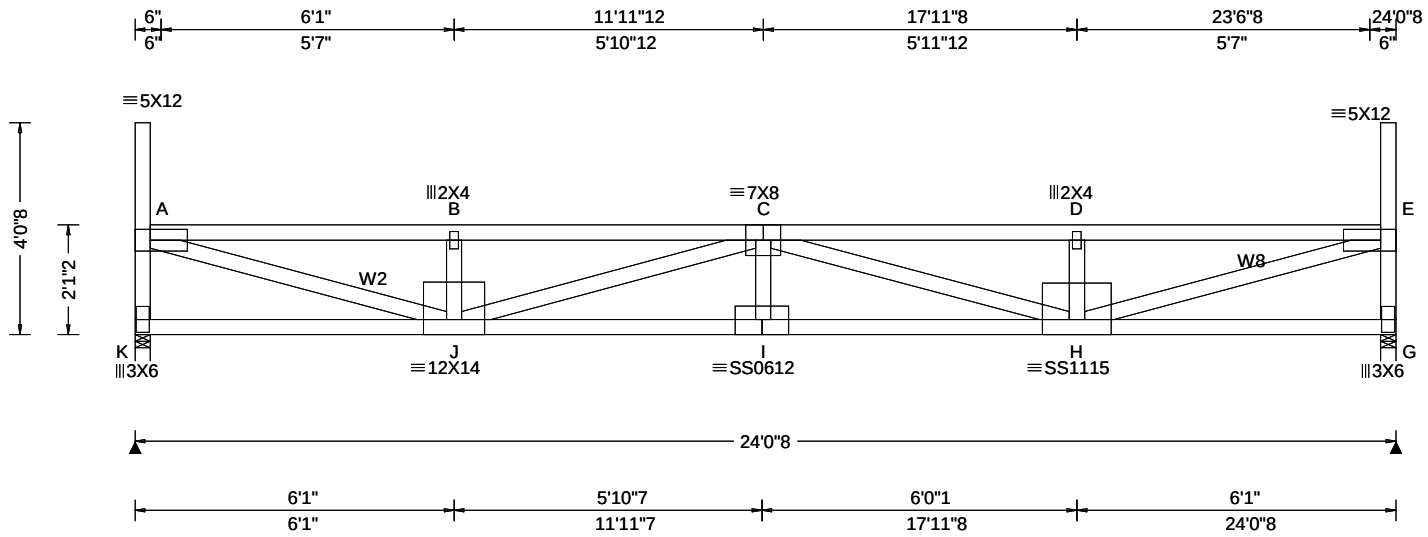
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36997 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T33	Cust: R 9316 JRef:1XfO93160003 T191 DrwNo: 139.22.1013.09360 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.380	I	759	360
VERT(CL): 0.706	I	408	240
HORZ(LL): 0.059	A	-	-
HORZ(TL): 0.110	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.932
Max BC CSI: 0.715
Max Web CSI: 0.844

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/733	/86	/139
G	1542	/-	/-	/733	/86	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	255	-4139	C - D	254	-4138
B - C	254	-4133	D - E	255	-4143

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5337	-321	I - H	5337	-321

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	99	-1381	C - H	138	-1252
A - J	4178	-256	H - E	4183	-257
J - C	142	-1258	E - G	99	-1382

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2,W8 2x4 SPF 2100f-1.8E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.95	33.87	4.20
23.75	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.33". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

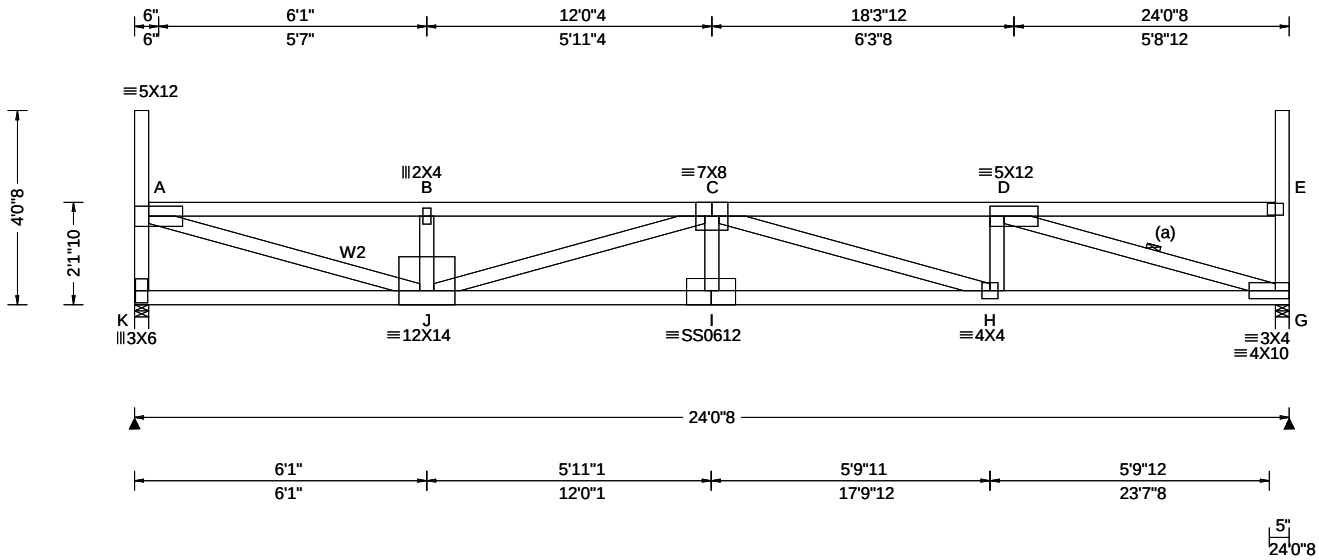
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36998 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T34	Cust: R 9316 JRef:1XfO93160003 T200 DrwNo: 139.22.1013.14307 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.363 I	795	360
VERT(CL):	0.674 I	428	240
HORZ(LL):	0.059 G	-	-
HORZ(TL):	0.110 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.916
Max BC CSI: 0.703
Max Web CSI: 0.849

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1542	/-	/-	/733	/86	/138
G	1542	/-	/-	/733	/86	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	250	- 4051	C - D	247	- 4073
B - C	249	- 4046			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5221	- 317	H - G	3954	- 214
I - H	5221	- 317			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	100	- 1382	C - H	138	- 1205
A - J	4097	- 251	H - D	767	- 2
J - C	140	- 1231	D - G	247	- 4084

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

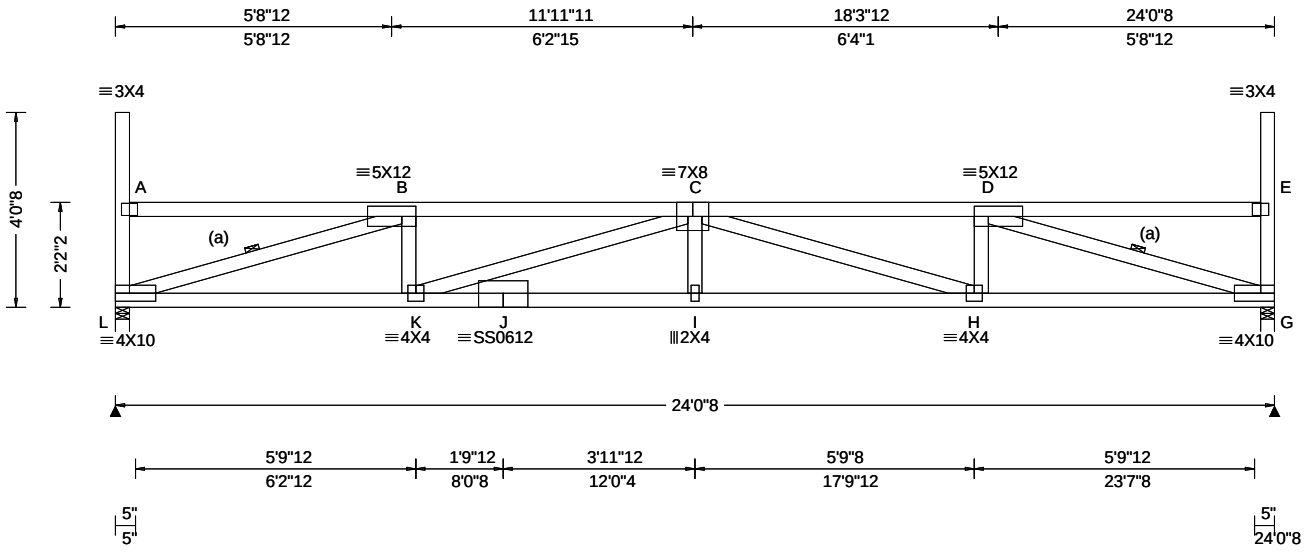
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36999 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T35	Cust: R 9316 JRef:1XfO93160003 T205 DrwNo: 139.22.1013.20497 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.346 I	833	360
VERT(CL):	0.643 I	448	240
HORZ(LL):	0.073 G	-	-
HORZ(TL):	0.136 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.679
Max BC CSI: 0.683
Max Web CSI: 0.833

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/86	/136
G	1541	/-	/-	/732	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	240	- 3982	C - D	240	- 3981

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3864	- 352	I - H	5103	- 310
K - J	5103	- 310	H - G	3864	- 209
J - I	5103	- 310			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	241	- 4000	C - H	134	- 1180
B - K	768	- 1	H - D	767	- 1
K - C	136	- 1179	D - G	240	- 3999

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.35" DL: 0.30". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

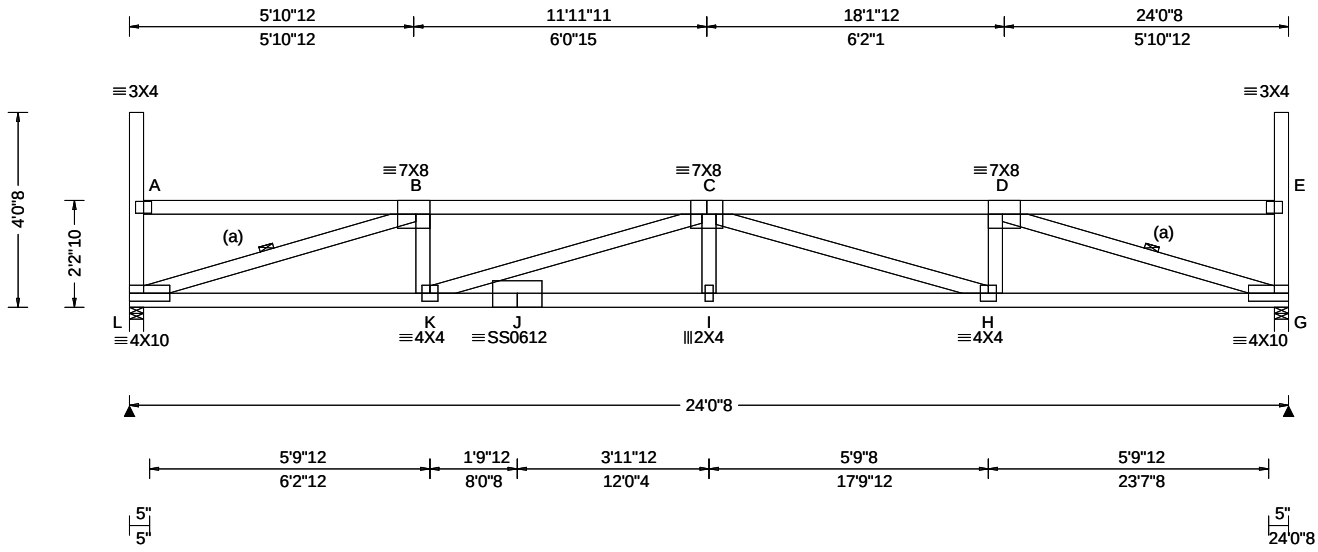
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37000 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T36	Cust: R 9316 JRef:1XfO93160003 T213 DrwNo: 139.22.1013.26690 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.89 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.332 I	868	360
VERT(CL):	0.617 I	467	240
HORZ(LL):	0.072 G	-	-
HORZ(TL):	0.134 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.656
Max BC CSI: 0.673
Max Web CSI: 0.820

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/86	/135
G	1541	/-	/-	/732	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	236	-3898	C - D	236	-3897

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3783	-346	I - H	4994	-305
K - J	4994	-305	H - G	3782	-207
J - I	4994	-305			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	236	-3924	C - H	131	-1156
B - K	768	-1	H - D	767	-1
K - C	133	-1155	D - G	236	-3923

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.82	29.72	4.79
23.75	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.33" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

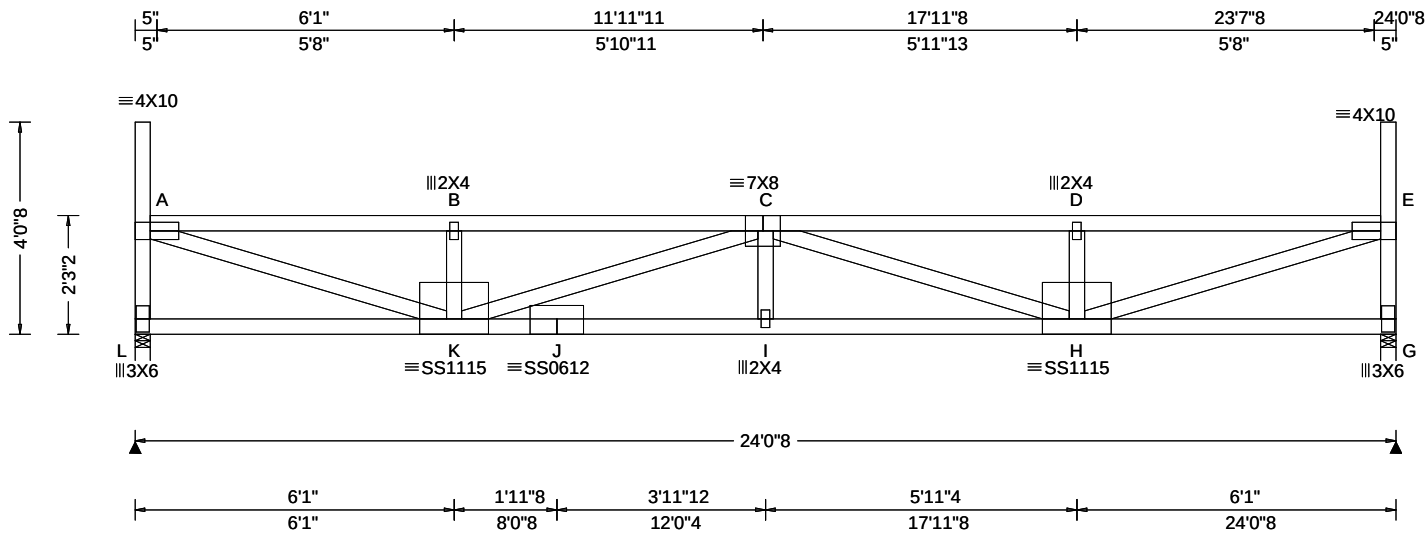
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37001 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T37	Cust: R 9316 JRef:1XfO93160003 T204 DrwNo: 139.22.1013.35327 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.93 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.336 I	859	360
VERT(CL):	0.624 I	462	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.101 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.869
Max BC CSI: 0.662
Max Web CSI: 0.945

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/86	/134
G	1541	/-	/-	/732	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	213	- 3791	C - D	212	- 3785
B - C	212	- 3786	D - E	213	- 3790

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4892	- 298	I - H	4892	- 298
J - I	4892	- 298			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1381	C - H	124	- 1166
A - K	3851	- 235	H - E	3850	- 235
K - C	128	- 1165	E - G	100	- 1380

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.78	28.34	5.03
23.75	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

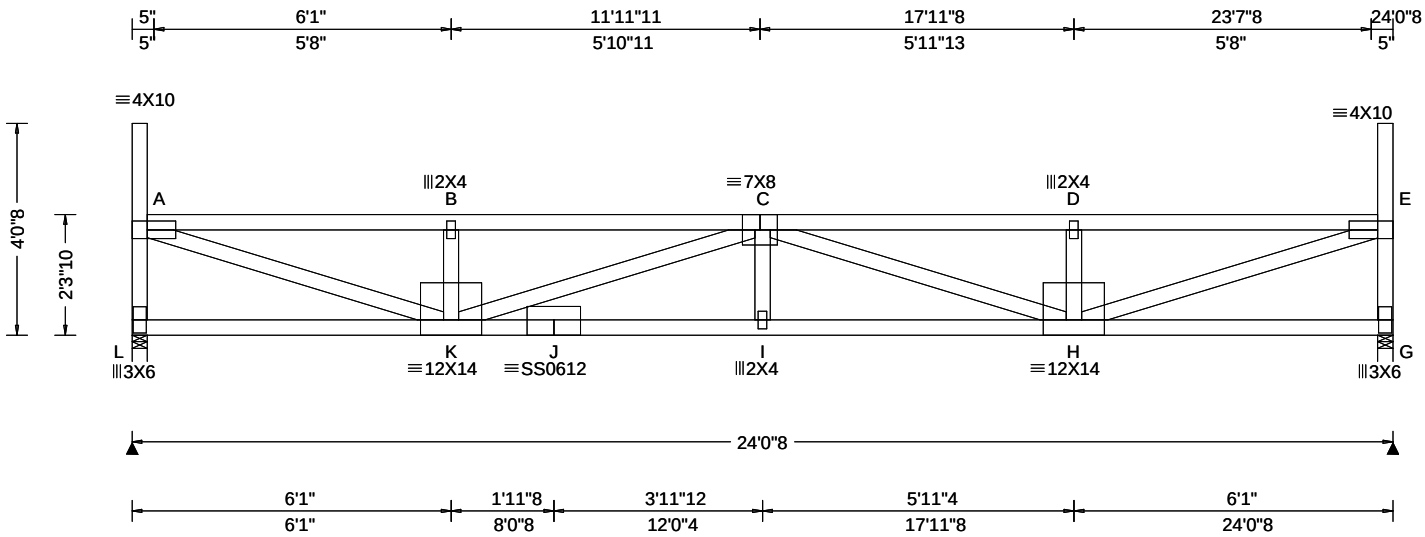
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37002 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T38	Cust: R 9316 JRef:1XfO93160003 T209 DrwNo: 139.22.1013.42607 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.97 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.323 I	893	360
VERT(CL):	0.600 I	480	240
HORZ(LL):	0.053 A	-	-
HORZ(TL):	0.099 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.854
Max BC CSI: 0.652
Max Web CSI: 0.928

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/86	/133
G	1541	/-	/-	/732	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	209	- 3715	C - D	208	- 3709
B - C	208	- 3710	D - E	209	- 3714

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4792	- 293	I - H	4792	- 293
J - I	4792	- 293			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1381	C - H	112	- 1143
A - K	3781	- 230	H - E	3780	- 231
K - C	116	- 1142	E - G	100	- 1381

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.74	26.95	5.28
23.75	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

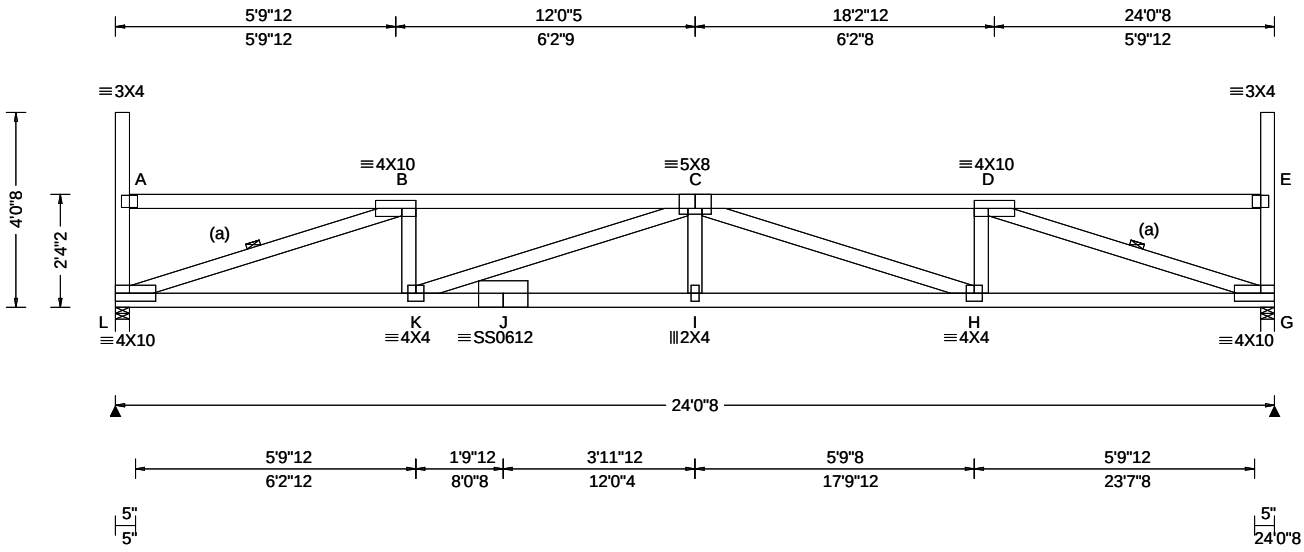
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37003 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T39	Cust: R 9316 JRef:1XfO93160003 T199 DrwNo: 139.22.1013.50930 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.296 I	976	360
VERT(CL):	0.549 I	525	240
HORZ(LL):	0.068 G	-	-
HORZ(TL):	0.126 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.598
Max BC CSI: 0.650
Max Web CSI: 0.783

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/132
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	202	- 3671	C - D	202	- 3670

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3563	- 310	I - H	4703	- 294
K - J	4703	- 294	H - G	3562	- 201
J - I	4703	- 294			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	226	- 3721	C - H	115	- 1096
B - K	769	0	H - D	769	0
K - C	117	- 1095	D - G	226	- 3719

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.70	25.57	5.57
23.75	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

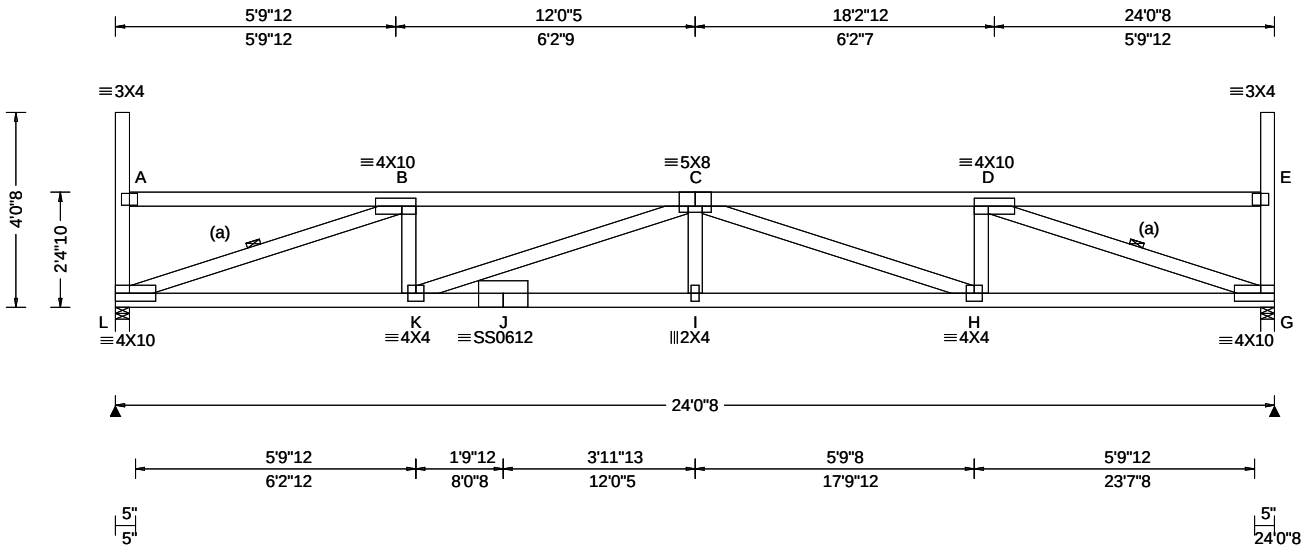
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37004 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T40	Cust: R 9316 JRef:1XfO93160003 T211 DrwNo: 139.22.1013.57413 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.285 I	999	360
VERT(CL):	0.529 I	545	240
HORZ(LL):	0.066 G	-	-
HORZ(TL):	0.123 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.583
Max BC CSI: 0.643
Max Web CSI: 0.772

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/131
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	199	-3600	C - D	199	-3598

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3494	-305	I - H	4611	-290
K - J	4611	-290	H - G	3492	-199
J - I	4611	-290			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	222	-3657	C - H	113	-1077
B - K	769	0	H - D	769	0
K - C	114	-1075	D - G	222	-3655

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

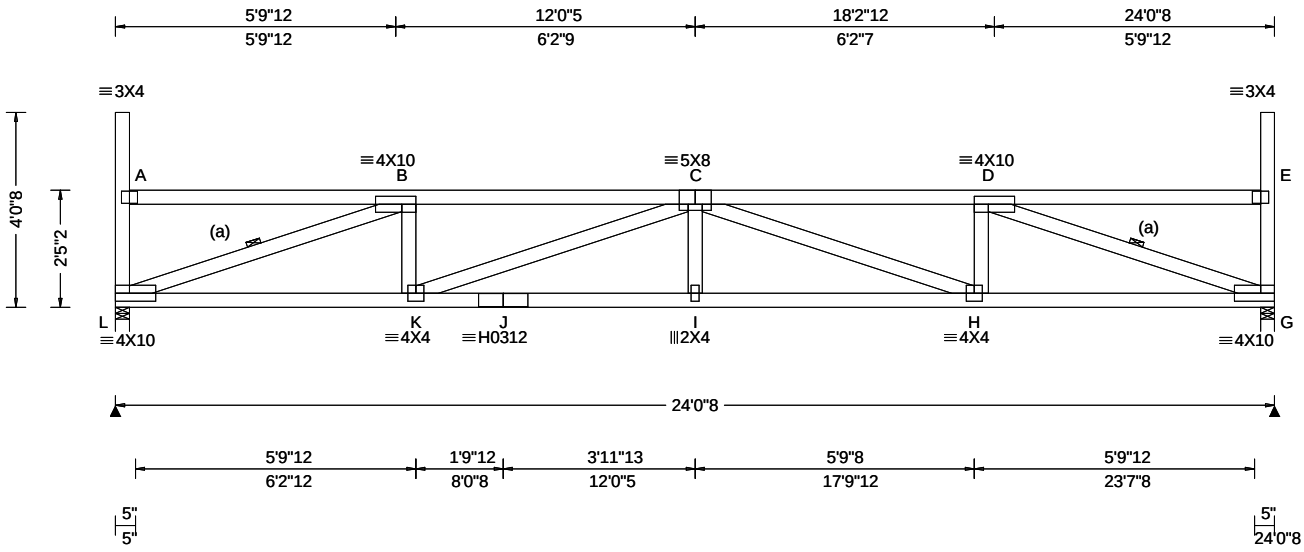
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37005 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T41	Cust: R 9316 JRef:1XfO93160003 T201 DrwNo: 139.22.1014.02977 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.274 I	999	360
VERT(CL):	0.510 I	565	240
HORZ(LL):	0.065 G	-	-
HORZ(TL):	0.121 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.568
Max BC CSI: 0.637
Max Web CSI: 0.761

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/129
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	195	- 3531	C - D	196	- 3530

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3427	- 320	I - H	4522	- 286
K - J	4522	- 286	H - G	3426	- 197
J - I	4522	- 286			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	219	- 3595	C - H	118	- 1058
B - K	769	- 1	H - D	769	0
K - C	120	- 1056	D - G	218	- 3594

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

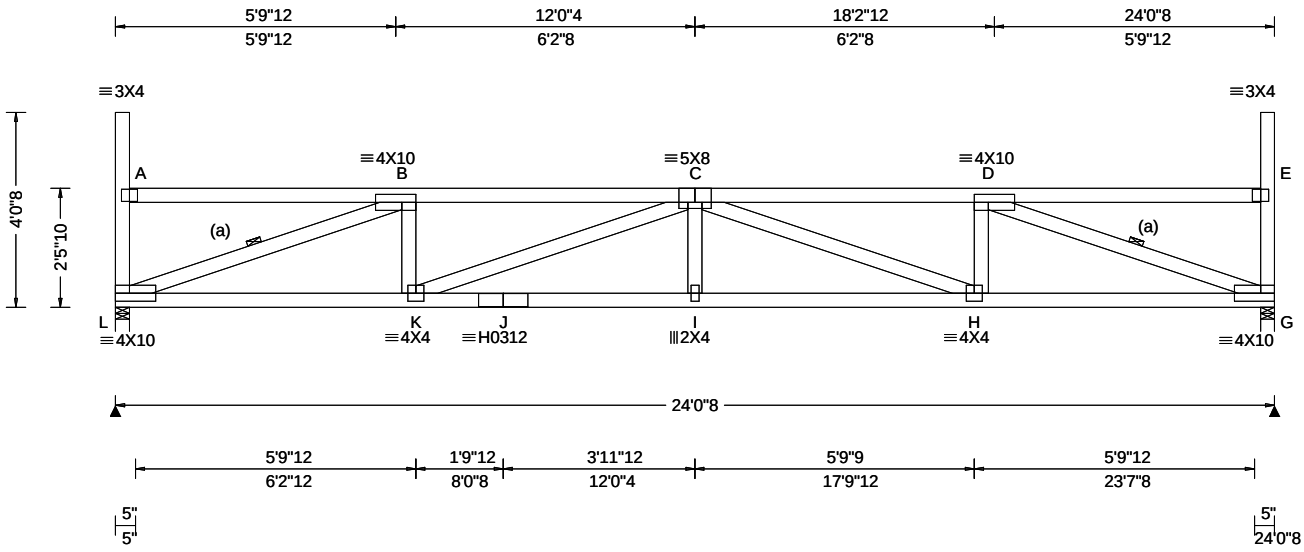
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37006 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T42	Cust: R 9316 JRef:1XfO93160003 T195 DrwNo: 139.22.1014.09803 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.265 I	999	360
VERT(CL):	0.492 I	586	240
HORZ(LL):	0.064 G	-	-
HORZ(TL):	0.119 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.553
Max BC CSI: 0.631
Max Web CSI: 0.751

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/128
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	192	- 3465	C - D	193	- 3464

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3363	- 315	I - H	4437	- 282
K - J	4437	- 282	H - G	3362	- 195
J - I	4437	- 282			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	215	- 3536	C - H	116	- 1039
B - K	769	0	H - D	769	0
K - C	117	- 1038	D - G	215	- 3535

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.57	21.42	5.16
23.75	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

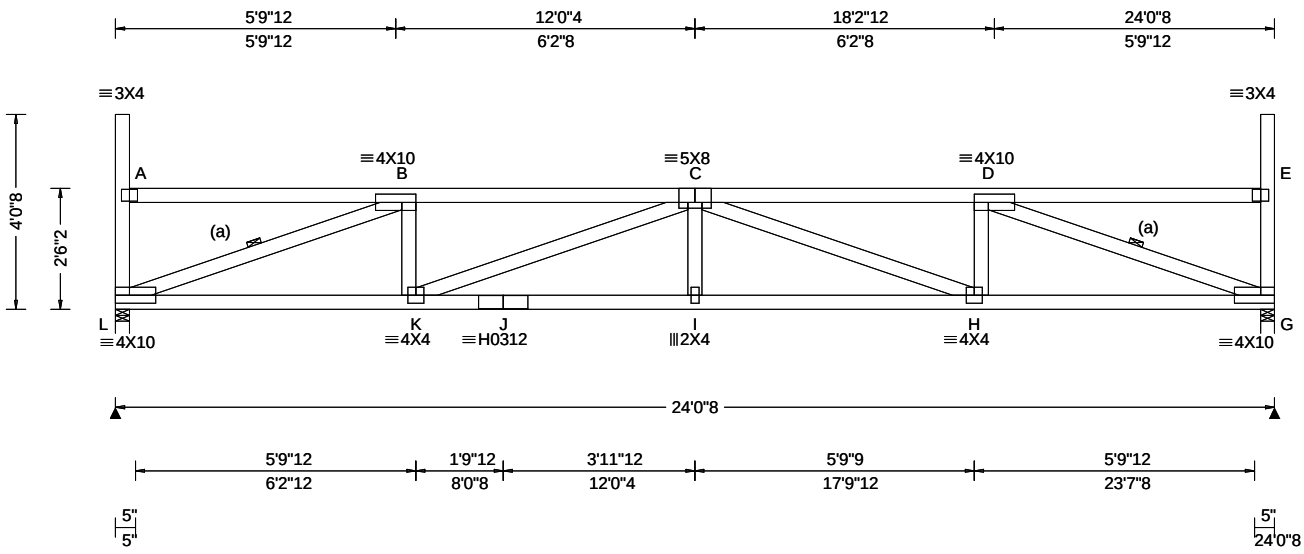
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37007 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T43	Cust: R 9316 JRef:1XfO93160003 T198 DrwNo: 139.22.1014.15690 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.255	I	999	360
VERT(CL): 0.475	I	607	240
HORZ(LL): 0.063	G	-	-
HORZ(TL): 0.116	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.540
Max BC CSI: 0.625
Max Web CSI: 0.741

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/127
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	211	-3401	C - D	211	-3400

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3301	-310	I - H	4354	-278
K - J	4354	-278	H - G	3300	-192
J - I	4354	-278			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	212	-3479	C - H	113	-1022
B - K	769	0	H - D	769	0
K - C	114	-1021	D - G	212	-3478

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.53	20.04	4.83
23.75	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

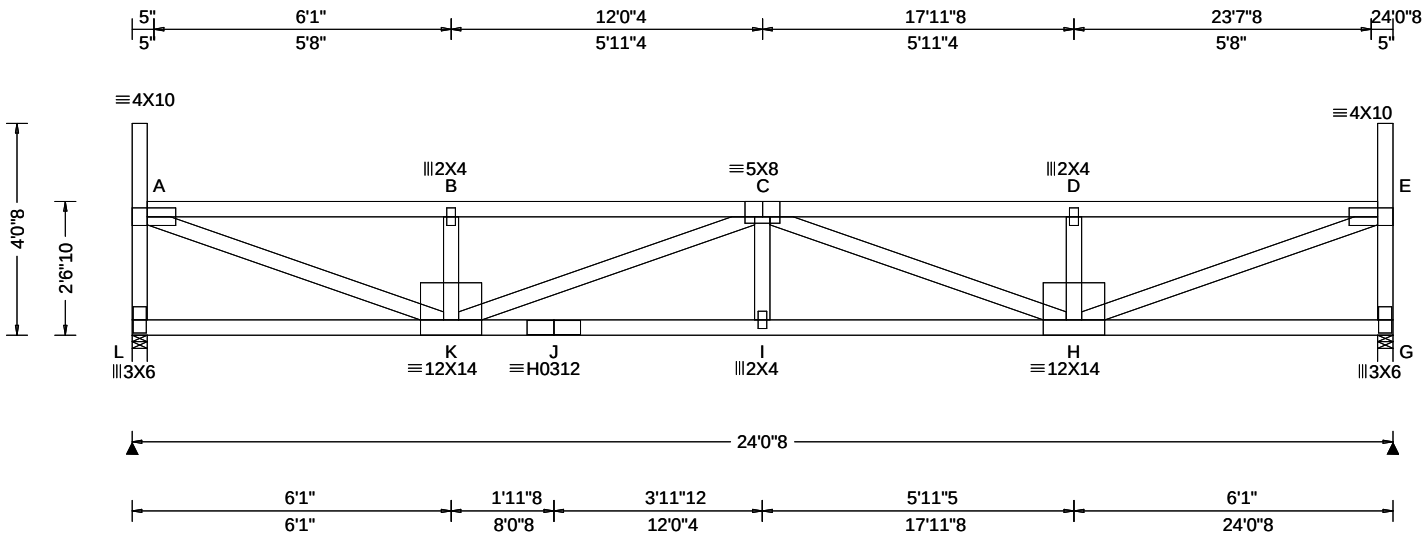
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37008 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T44	Cust: R 9316 JRef:1XfO93160003 T202 DrwNo: 139.22.1014.22700 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.260 I	999	360
VERT(CL):	0.482 I	597	240
HORZ(LL):	0.048 A	-	-
HORZ(TL):	0.089 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.693
Max BC CSI: 0.608
Max Web CSI: 0.838

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/126
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	211	-3318	C - D	211	-3312
B - C	211	-3313	D - E	211	-3317

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4276	-272	I - H	4276	-272
J - I	4276	-272			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	102	-1385	C - H	107	-1032
A - K	3417	-209	H - E	3416	-210
B - K	79	-376	D - H	80	-376
K - C	110	-1030	E - G	102	-1385

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.49	18.65	4.50
23.75	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

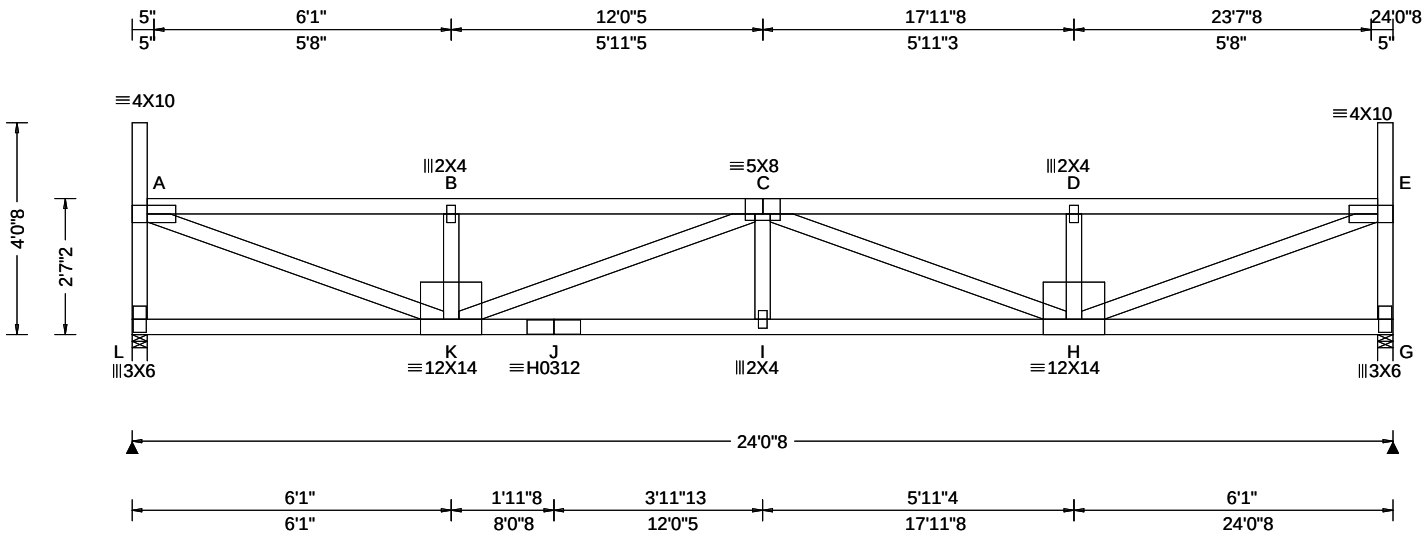
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37009 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T45	Cust: R 9316 JRef:1XfO93160003 T196 DrwNo: 139.22.1014.27663 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.251	I	999	360
VERT(CL): 0.466	I	618	240
HORZ(LL): 0.047	A	-	-
HORZ(TL): 0.088	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.676
Max BC CSI: 0.602
Max Web CSI: 0.825

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/87	/125
G	1542	/-	/-	/731	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	208	- 3260	C - D	207	- 3253
B - C	208	- 3255	D - E	208	- 3258

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4200	- 269	I - H	4200	- 269
J - I	4200	- 269			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	102	- 1385	C - H	105	- 1015
A - K	3364	- 206	D - H	80	- 378
B - K	80	- 378	H - E	3362	- 207
K - C	108	- 1013	E - G	102	- 1385

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.45	17.27	4.16
23.75	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

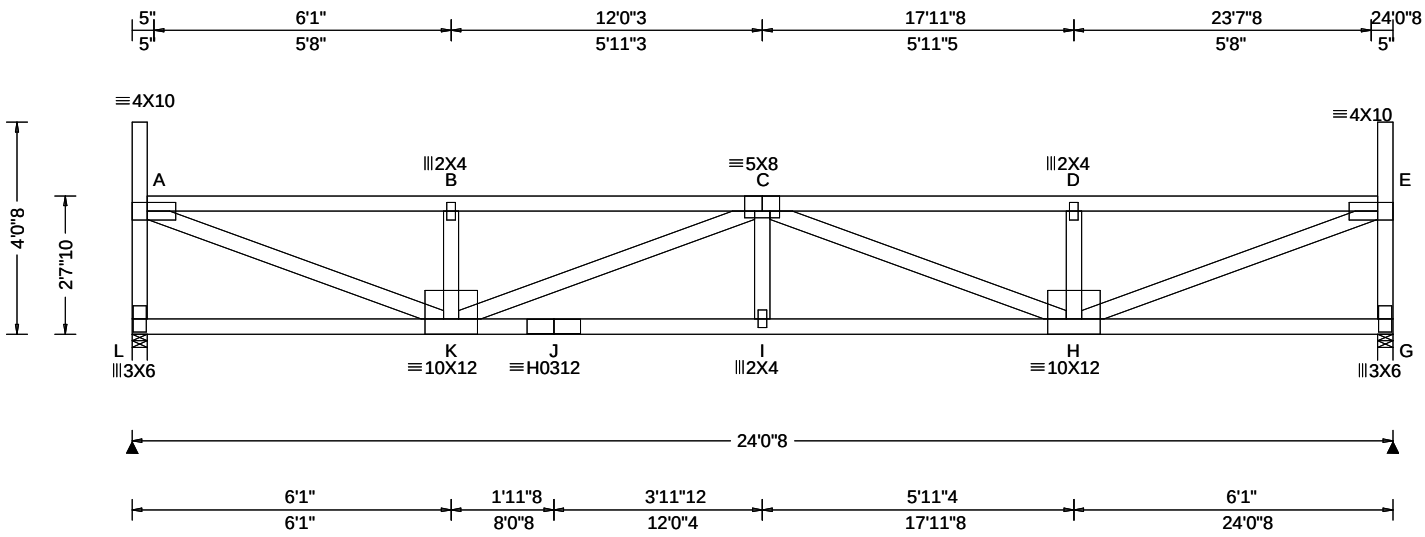
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37010 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T46	Cust: R 9316 JRef:1XfO93160003 T207 DrwNo: 139.22.1014.37373 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.243	I	999	360
VERT(CL): 0.451	I	639	240
HORZ(LL): 0.046	A	-	-
HORZ(TL): 0.086	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.663
Max BC CSI: 0.597
Max Web CSI: 0.813

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/88	/123
G	1542	/-	/-	/731	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	205	- 3203	C - D	204	- 3197
B - C	204	- 3198	D - E	205	- 3202

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4125	- 265	I - H	4125	- 265
J - I	4125	- 265			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	102	- 1385	C - H	103	- 997
A - K	3311	- 203	H - E	3311	- 203
B - K	80	- 380	D - H	80	- 380
K - C	105	- 997	E - G	102	- 1385

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.41	15.89	3.83
23.75	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

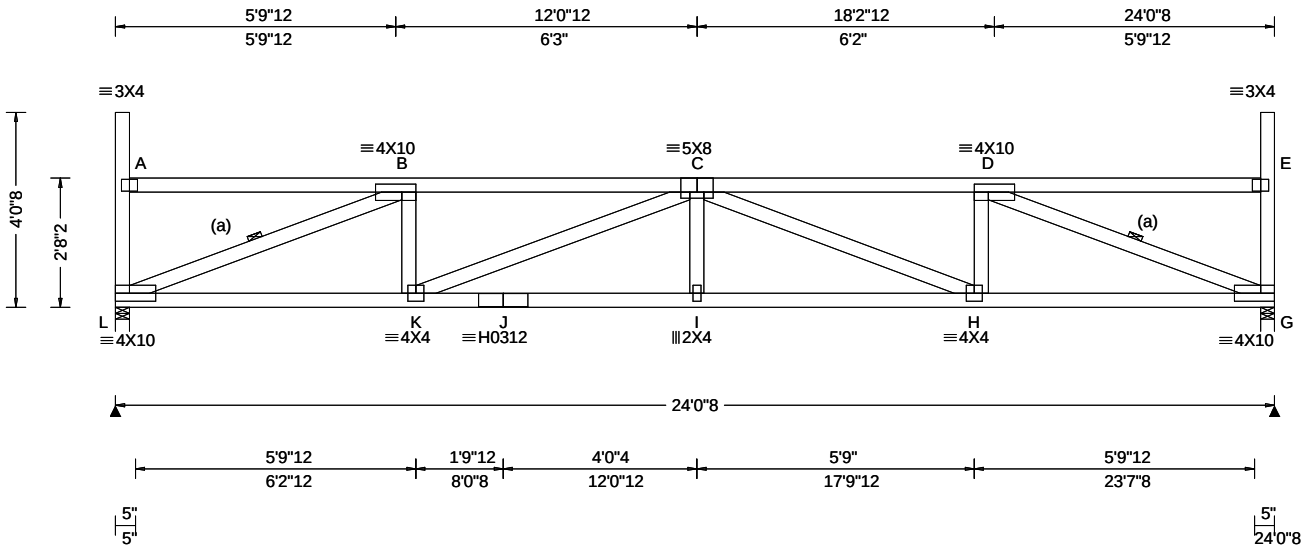
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37011 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T47	Cust: R 9316 JRef:1XfO93160003 T203 DrwNo: 139.22.1014.44723 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.223 I	999	360
VERT(CL):	0.415 I	694	240
HORZ(LL):	0.058 G	-	-
HORZ(TL):	0.108 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.516
Max BC CSI: 0.604
Max Web CSI: 0.706

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/88	/122
G	1542	/-	/-	/731	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	199	- 3169	C - D	199	- 3166

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3076	- 291	I - H	4053	- 264
K - J	4053	- 264	H - G	3073	- 185
J - I	4053	- 264			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	200	- 3274	C - H	104	- 960
B - K	768	0	H - D	770	0
K - C	105	- 955	D - G	200	- 3270

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.22" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

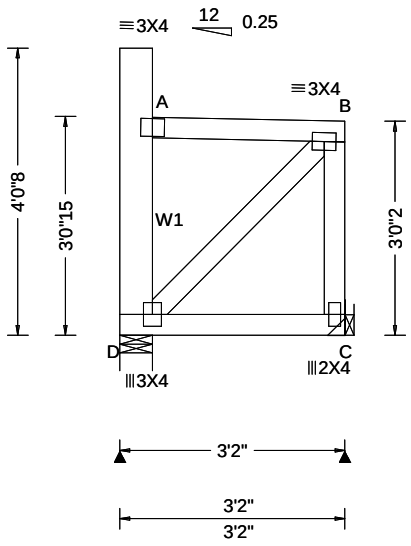
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37012 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48	Cust: R 9316 JRef:1XfO93160003 T197 DrwNo: 139.22.1014.48777 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.71 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.001	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.139
Max BC CSI: 0.123
Max Web CSI: 0.033

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	176	/-	/-	/111	/53	/78
C	204	/-	/-	/150	/47	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

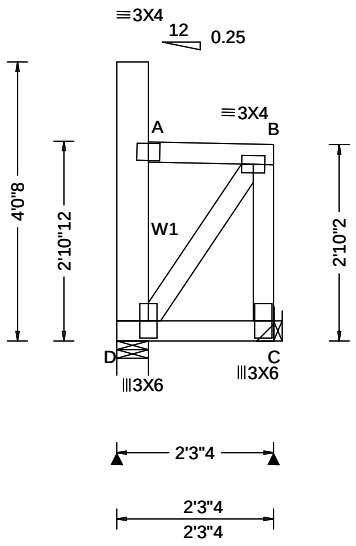
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37014 MONO FROM:	Ply: 1 Qty: 16	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T49	Cust: R 9316 JRef:1XfO93160003 T217 DrwNo: 139.22.1014.57150 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.065
Max BC CSI: 0.063
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	119	/-	/-	/99	/78	/80
C	144	/-	/-	/147	/61	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

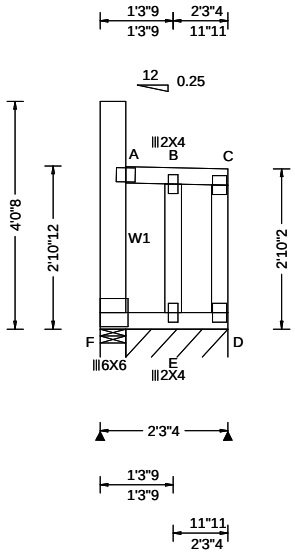
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 37015 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T50	Cust: R 9316 JRef:1XfO93160003 T138 DrwNo: 139.22.1015.01500 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.007 A	999	360
VERT(CL):	0.009 A	999	240
HORZ(LL):	0.124 B	-	-
HORZ(TL):	0.141 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.111
Max BC CSI: 0.255
Max Web CSI: 0.115

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	36	/-8	/-	/118	/150	/92
D*	139	/-	/-	/148	/70	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 21.7 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

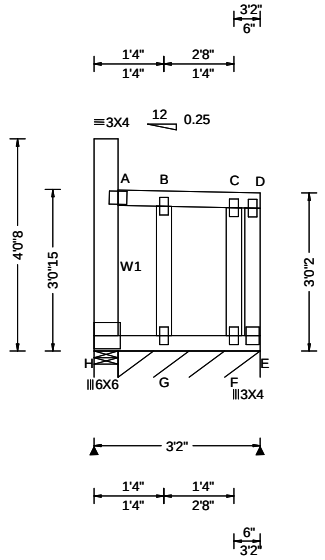
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37016 GABL FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T51	Cust: R 9316 JRef:1XfO93160003 T169 DrwNo: 139.22.1015.15527 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.71 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	A	999	360
VERT(CL): 0.010	A	999	240
HORZ(LL): 0.122	C	-	-
HORZ(TL): 0.143	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.105
Max BC CSI: 0.293
Max Web CSI: 0.131

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	47	/-	/-	/123	/131	/90
E*	123	/-	/-	/106	/44	/-

Wind reactions based on MWFRS
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 32.5 Min Req = -
Bearings H & H are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

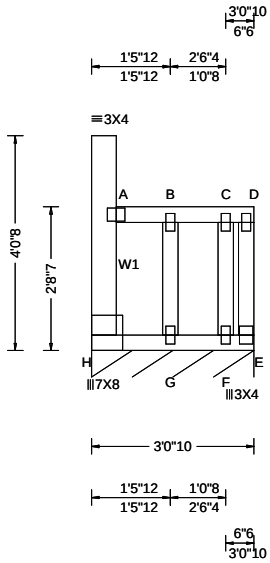
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37017 GABL FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T52	Cust: R 9316 JRef:1XfO93160003 T132 DrwNo: 139.22.1015.19437 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	A	999	360
VERT(CL): 0.009	A	999	240
HORZ(LL): 0.115	A	-	-
HORZ(TL): 0.134	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.115
Max BC CSI: 0.323
Max Web CSI: 0.142

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E*	119	/-	/-	/56	/5	/30

Wind reactions based on MWFRS
E Brg Wid = 36.6 Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.34	13.63	2.59

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

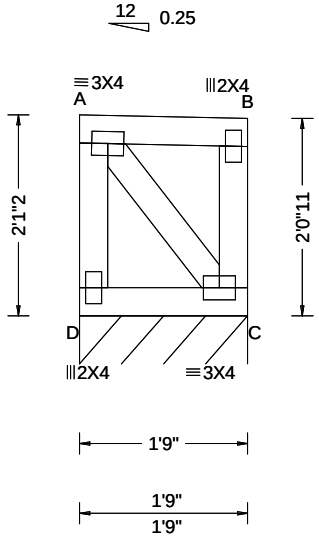
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37018 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE01	Cust: R 9316 JRef:1XfO93160003 T188 DrwNo: 139.22.0906.42780 / NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.08 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.039 Max Web CSI: 0.021 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 21.0 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

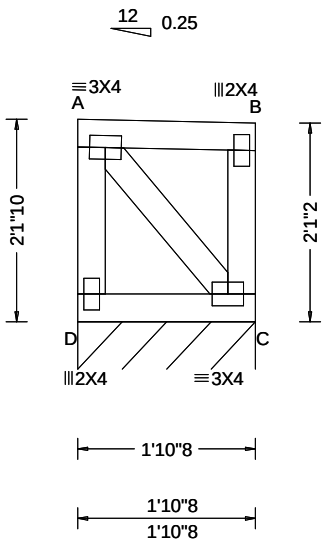
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37019 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE02	Cust: R 9316 JRef:1XfO93160003 T189 DrwNo: 139.22.0906.42670 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.12 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.022

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/18

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

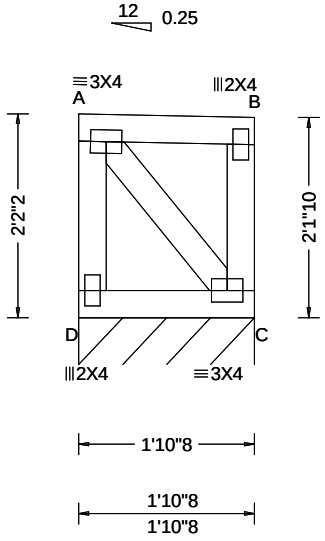
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37020 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE03	Cust: R 9316 JRef:1XfO93160003 T190 DrwNo: 139.22.0906.42914 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.16 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.023

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

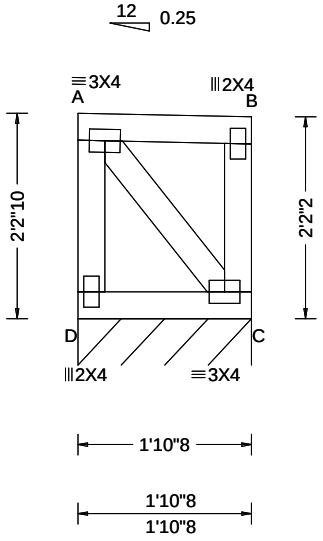
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37021 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE04	Cust: R 9316 JRef:1XfO93160003 T192 DrwNo: 139.22.0906.42840 / NDW 05/19/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.20 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.024 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

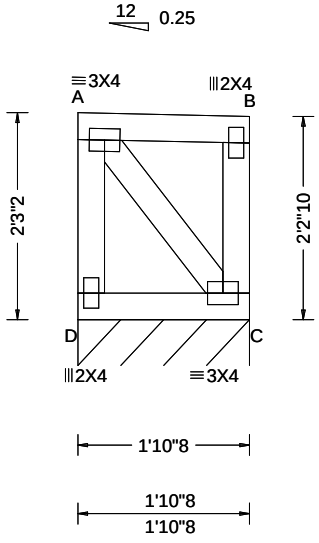
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37022 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE05	Cust: R 9316 JRef:1XfO93160003 T215 DrwNo: 139.22.0906.42054 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.24 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.025

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

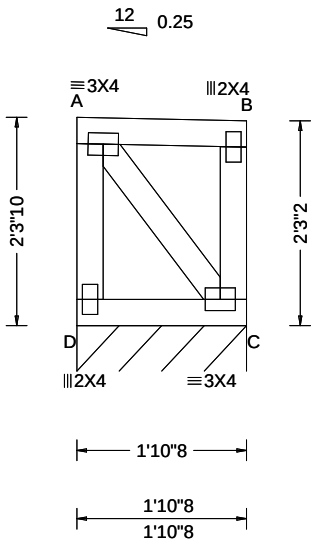
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37023 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE06	Cust: R 9316 JRef:1XfO93160003 T219 DrwNo: 139.22.0906.41998 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.28 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.026

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

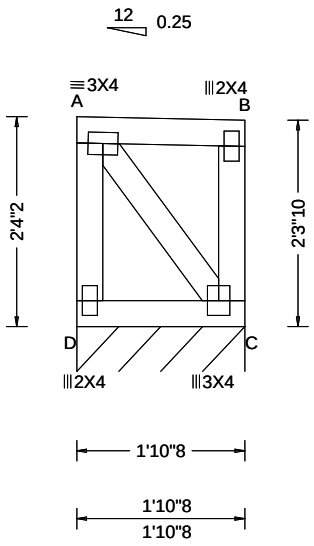
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37024 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE07	Cust: R 9316 JRef:1XfO93160003 T220 DrwNo: 139.22.0906.41921 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.32 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.027

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

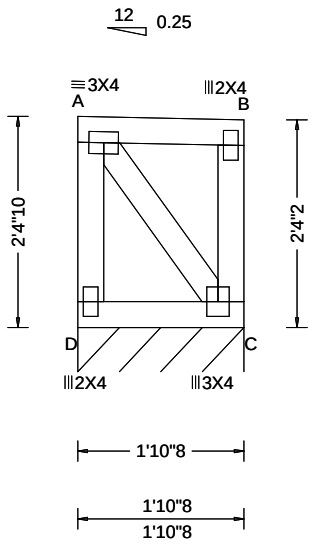
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37025 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE08	Cust: R 9316 JRef:1XfO93160003 T221 DrwNo: 139.22.0906.42885 / NDW 05/19/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.000 B - -
NCBCLL: 0.00	Mean Height: 21.37 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.046
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.028
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

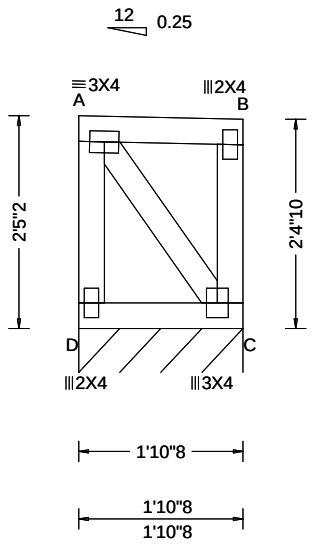
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37026 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE09	Cust: R 9316 JRef:1XfO93160003 T222 DrwNo: 139.22.0906.42717 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.41 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.029

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

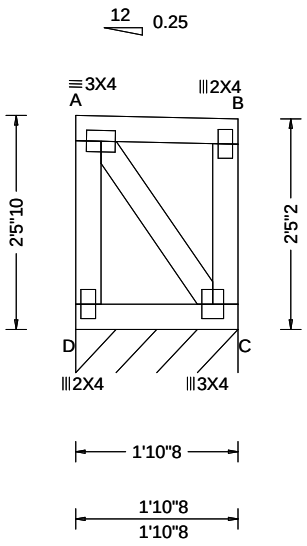
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37027 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE10	Cust: R 9316 JRef:1XfO93160003 T223 DrwNo: 139.22.0906.42662 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.45 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.031

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

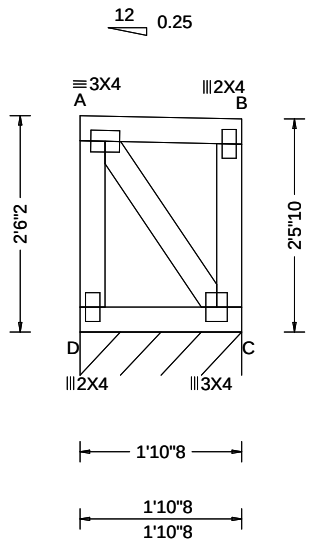
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37028 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE11	Cust: R 9316 JRef:1XfO93160003 T224 DrwNo: 139.22.0906.42423 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.49 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.032

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

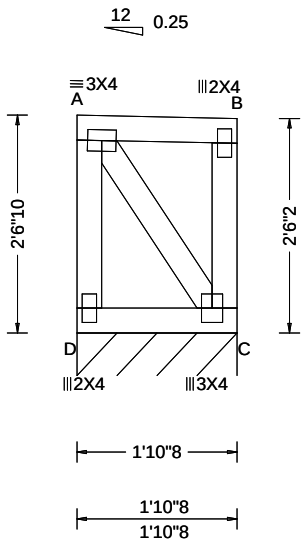
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37029 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE12	Cust: R 9316 JRef:1XfO93160003 T225 DrwNo: 139.22.0906.42021 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.033

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

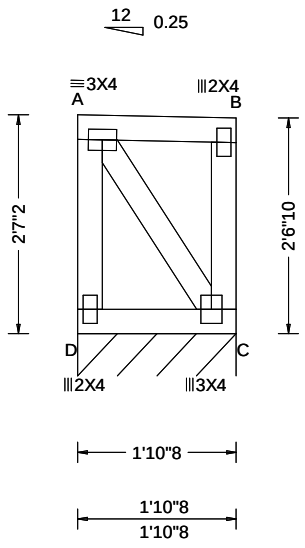
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37030 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE13	Cust: R 9316 JRef:1XfO93160003 T226 DrwNo: 139.22.0906.42013 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.57 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.035

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

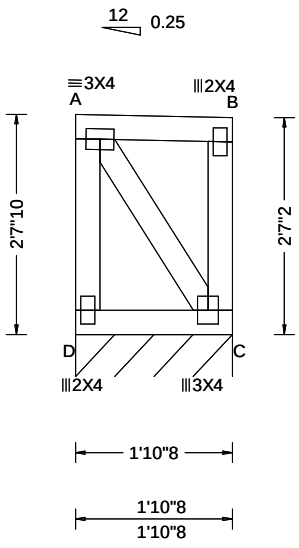
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37031 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE14	Cust: R 9316 JRef:1XfO93160003 T227 DrwNo: 139.22.0906.42067 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.62 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.036

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

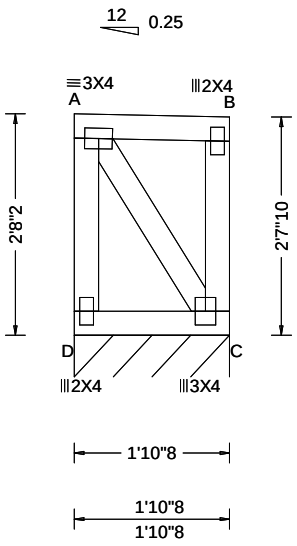
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 37032 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE15	Cust: R 9316 JRef:1XfO93160003 T228 DrwNo: 139.22.0906.42496 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.66 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.037

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

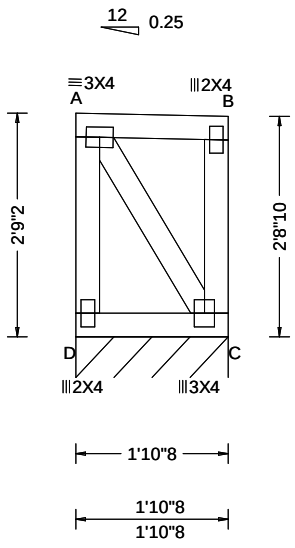
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37033 / MONO FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE16	Cust: R 9316 JRef:1XfO93160003 T251 DrwNo: 139.22.0906.42361 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.74 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.040

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

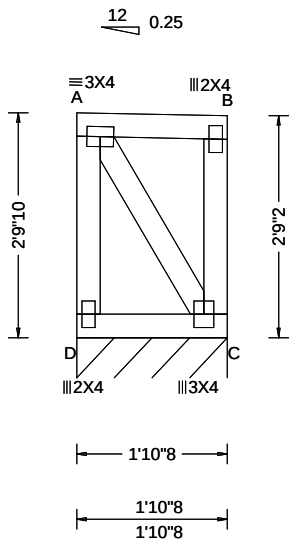
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37034 / MONO FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE17	Cust: R 9316 JRef:1XfO93160003 T252 DrwNo: 139.22.0906.42327 / NDW 05/19/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.78 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

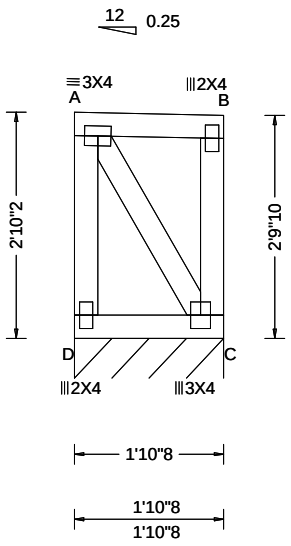
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37035 / MONO FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE18	Cust: R 9316 JRef:1XfO93160003 T253 DrwNo: 139.22.0906.42020 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.82 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

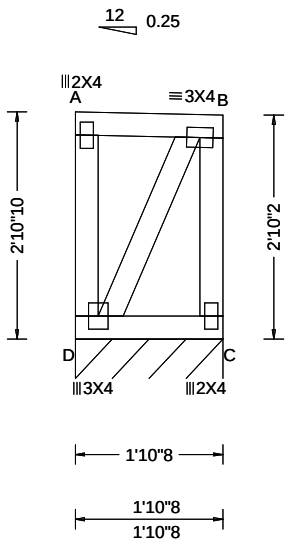
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37036 MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE19	Cust: R 9316 JRef:1XfO93160003 T254 DrwNo: 139.22.1015.25600 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): -0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.043

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/27

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

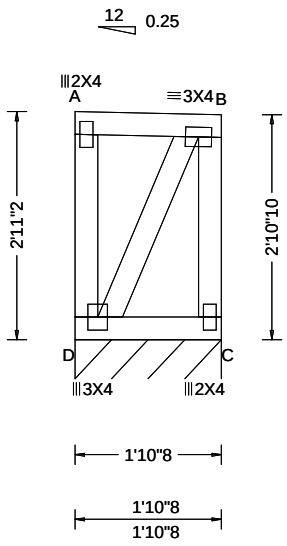
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37037 MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE20	Cust: R 9316 JRef:1XfO93160003 T255 DrwNo: 139.22.1015.32097 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.57 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	-0.001 A	-	-
HORZ(TL):	0.001 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.044

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

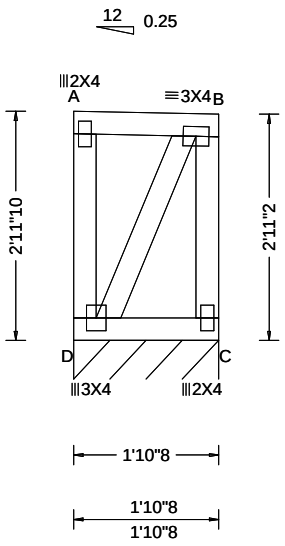
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37038 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE21	Cust: R 9316 JRef:1XfO93160003 T256 DrwNo: 139.22.1015.34987 / NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.62 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.046 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

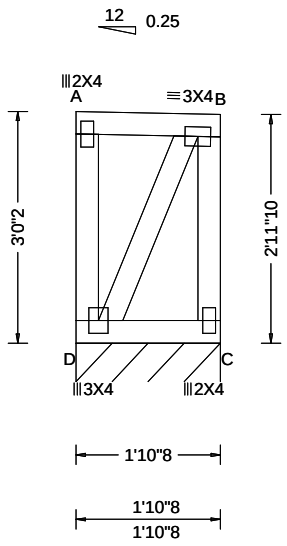
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37039 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE22	Cust: R 9316 JRef:1XfO93160003 T257 DrwNo: 139.22.1015.39407 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.66 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.000 B	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	-0.001 A	-	-
HORZ(TL):	0.001 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.047

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/29

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

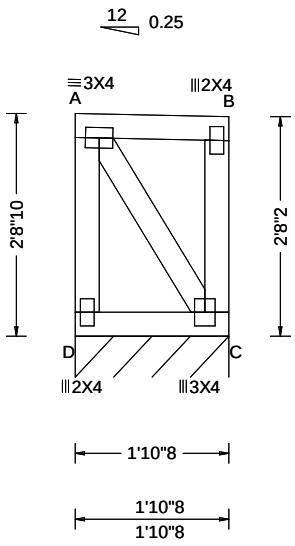
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37040 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE23	Cust: R 9316 JRef:1XfO93160003 T231 DrwNo: 139.22.0906.42000 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.038

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

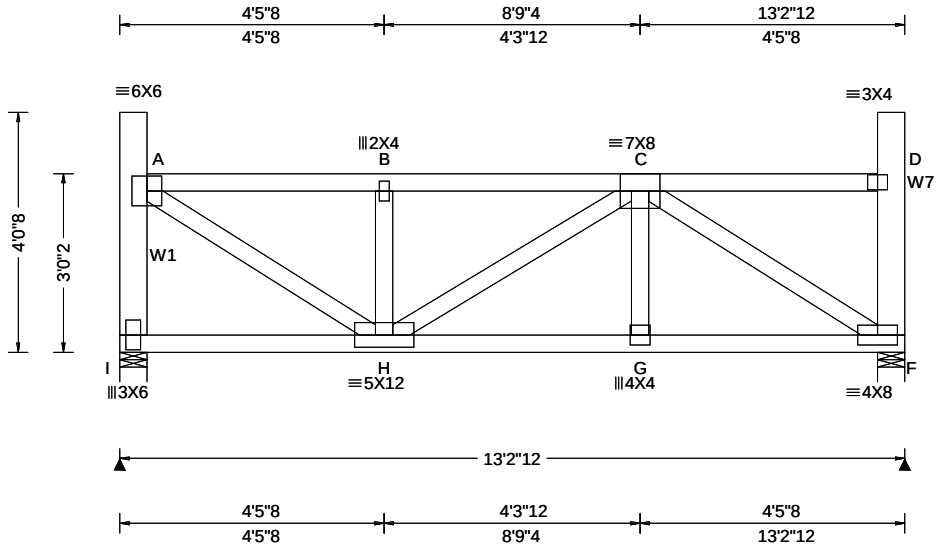
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37043 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T09	Cust: R 9316 JRef:1XfO93160003 T14 DrwNo: 139.22.0949.12417 / NDW 05/19/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.038 B	999	360
VERT(CL):	0.071 B	999	240
HORZ(LL):	0.012 A	-	-
HORZ(TL):	0.022 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.313
Max BC CSI: 0.556
Max Web CSI: 0.834

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	1464	/-	/-	/-	/161	/-
F	1371	/-	/-	/-	/124	/-

Wind reactions based on MWFRS
I Brg Wid = 5.5 Min Req = 2.1 (Truss)
F Brg Wid = 5.5 Min Req = 2.0 (Truss)
Bearings I & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	181	-1777	B - C	181	-1772

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	1747	-150	G - F	1747	-150

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - A	114	-1164	C - G	699	-47
A - H	1928	-194	C - F	170	-1991

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 60 plf at 0.00 to 60 plf at 13.23
BC: 204 lb Conc. Load at 1.17, 3.17, 5.17,11.17
BC: 183 lb Conc. Load at 7.17, 9.17

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

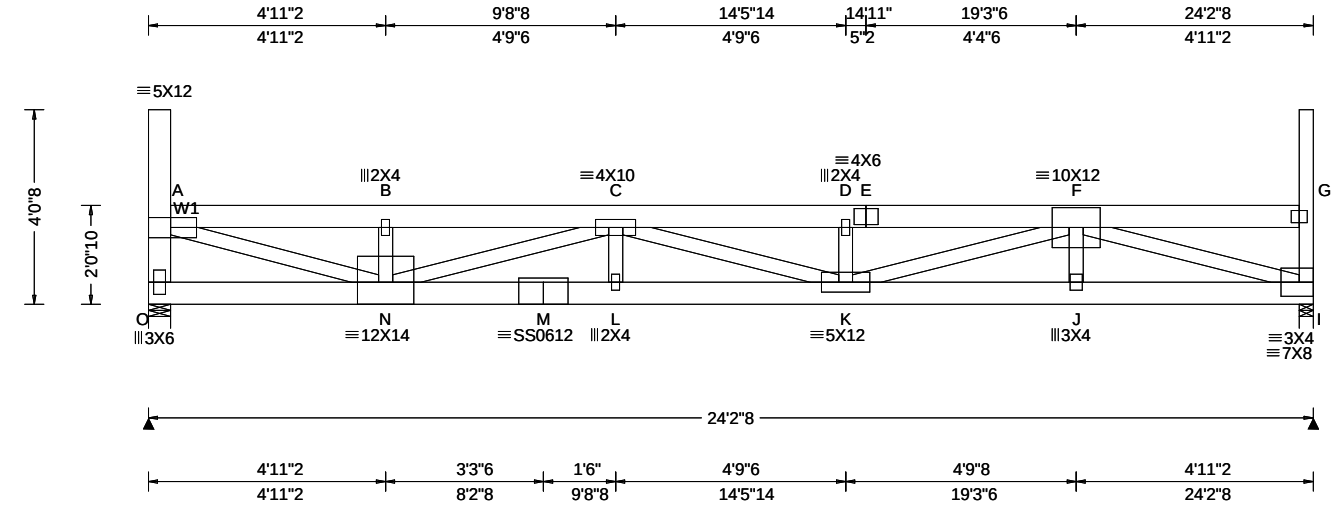
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37045 FLAT FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T16	Cust: R 9316 JRef:1XfO93160003 T9 DrwNo: 139.22.1000.59477 / NDW 05/19/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.264	D	999	360
VERT(CL): 0.490	D	592	240
HORZ(LL): 0.040	I	-	-
HORZ(TL): 0.075	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.232
Max BC CSI: 0.653
Max Web CSI: 0.907

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	2486	/-	/-	/-	/388	/-
I	2496	/-	/-	/-	/403	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 1.9 (Truss)
I Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	517	- 3208	D - E	782	- 4709
B - C	516	- 3200	E - F	782	- 4709
C - D	782	- 4709			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	4702	- 769	K - J	3198	- 532
M - L	4702	- 769	J - I	3198	- 532
L - K	4702	- 769			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	173	- 1110	K - F	1592	- 264
A - N	3172	- 513	F - I	552	- 3317
N - C	267	- 1583			

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 23.92
BC: From 60 plf at 0.00 to 60 plf at 24.21
BC: 170 lb Conc. Load at 2.06, 4.06, 6.06, 8.06 10.06,18.06
BC: 173 lb Conc. Load at 12.06,14.06,16.06,20.06 22.06

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.99	34.38	4.14
23.92	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

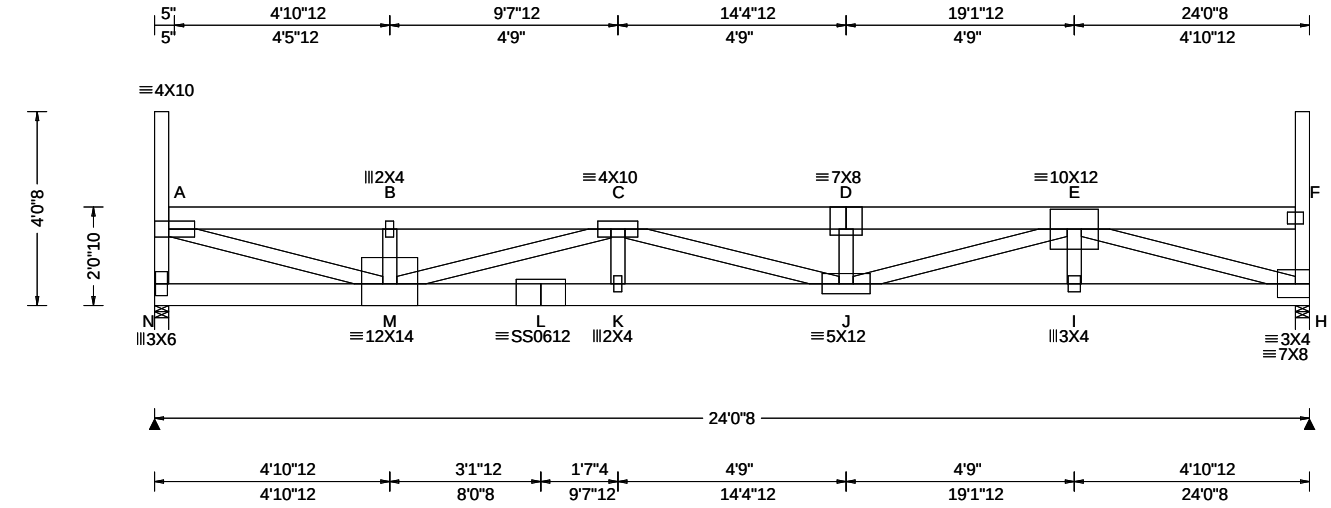
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37046 FLAT FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T32	Cust: R 9316 JRef:1XfO93160003 T8 DrwNo: 139.22.1013.04320 / NDW 05/19/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.258 D	999	360
VERT(CL):	0.479 D	601	240
HORZ(LL):	0.039 H	-	-
HORZ(TL):	0.073 H	-	-

Creep Factor: 2.0
Max TC CSI: 0.228
Max BC CSI: 0.646
Max Web CSI: 0.891

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	2499	/-	/-	/-	/411	/-
H	2477	/-	/-	/-	/396	/-

Wind reactions based on MWFRS
N Brg Wid = 3.5 Min Req = 2.0 (Truss)
H Brg Wid = 3.5 Min Req = 1.9 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	535	- 3181	C - D	776	- 4647
B - C	534	- 3173	D - E	776	- 4647

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	4648	- 783	J - I	3154	- 520
L - K	4648	- 783	I - H	3154	- 520
K - J	4648	- 783			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	182	- 1117	J - E	1574	- 271
A - M	3204	- 540	E - H	540	- 3274
M - C	263	- 1556			

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 23.75
BC: From 60 plf at 0.00 to 60 plf at 24.04
BC: 173 lb Conc. Load at 1.90, 3.90, 7.90, 9.90 11.90,13.90,21.90
BC: 170 lb Conc. Load at 5.90,15.90,17.90,19.90

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.99	34.38	4.14
23.75	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

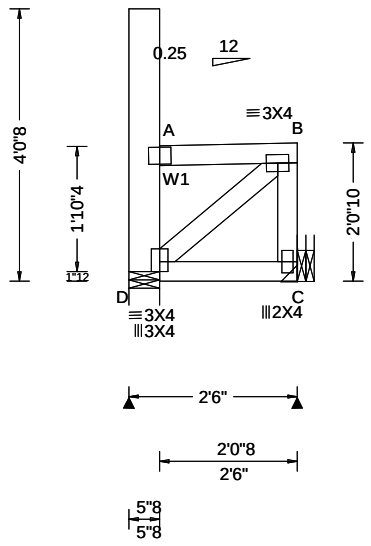
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36969 MONO FROM:	Ply: 1 Qty: 17	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02A	Cust: R 9316 JRef:1XfO93160003 T7 DrwNo: 139.22.0947.45770 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 B	999	360
VERT(CL):	0.000 B	999	240
HORZ(LL):	0.001 A	-	-
HORZ(TL):	0.001 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.102
Max BC CSI: 0.079
Max Web CSI: 0.106

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	122	/-	/-	/98	/76	/62
C	170	/-	/-	/145	/56	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

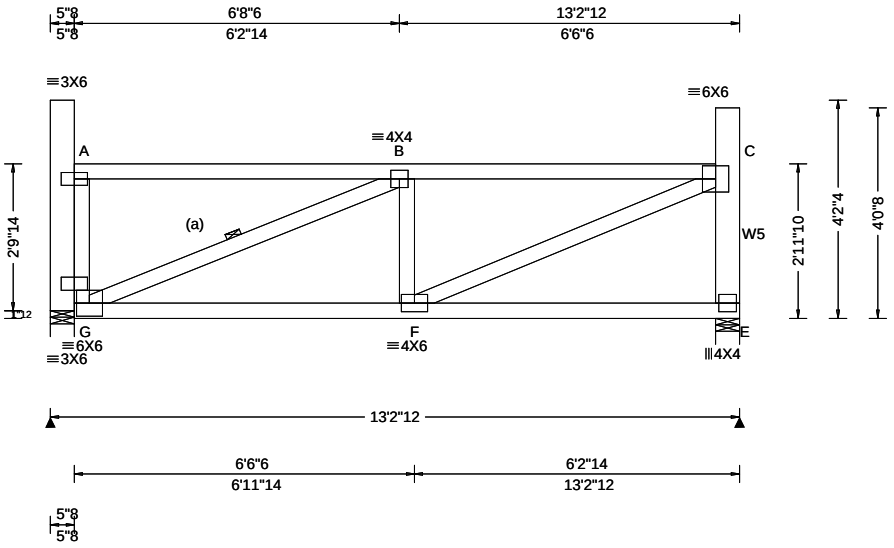
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 36977 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T08A	Cust: R 9316 JRef:1XfO93160003 T10 DrwNo: 139.22.0949.02650 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.036	B	999	360
VERT(CL): 0.067	B	999	240
HORZ(LL): 0.007	E	-	-
HORZ(TL): 0.013	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.705
Max BC CSI: 0.887
Max Web CSI: 0.297

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	823	/-	/-	/395	/51	/79
E	805	/-	/-	/382	/48	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Support)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	99	-1198

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	1195	-107

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	655	-22	F - C	1198	-100
G - A	51	-824	C - E	63	-651
G - B	94	-1265			

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W5 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Blocking
Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11965.47" if used)

Additional Notes
Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

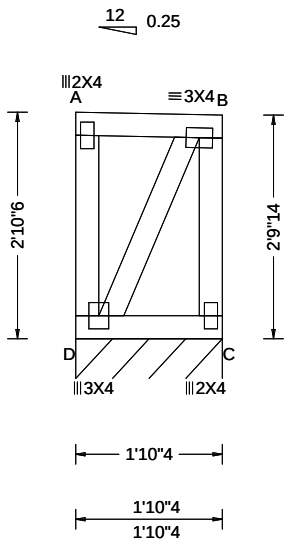
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37041 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE24	Cust: R 9316 JRef:1XfO93160003 T13 DrwNo: 139.22.1015.48073 / NDW 05/19/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.052 Max BC CSI: 0.045 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/27

Wind reactions based on MWFRS
C Brg Wid = 22.2 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

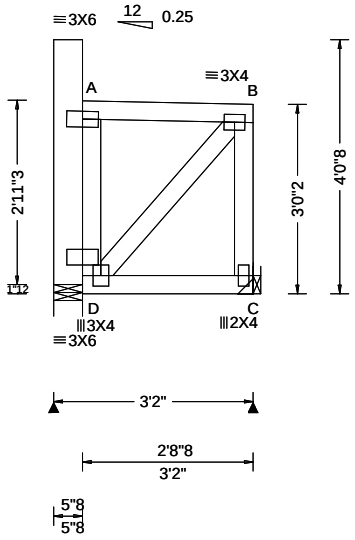
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37013 MONO FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48A	Cust: R 9316 JRef:1XfO93160003 T3 DrwNo: 139.22.1014.52860 / NDW 05/19/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.71 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	D	999	360
VERT(CL): 0.001	D	999	240
HORZ(LL): 0.000	C	-	-
HORZ(TL): 0.000	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.120
Max BC CSI: 0.103
Max Web CSI: 0.023

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	170	/-	/-	/79	/10	/1
C	183	/-	/-	/85	/8	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11938.37" if used)

Additional Notes

Truss must be installed as shown with top chord up.

05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Gable Stud Reinforcement Detail

ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
				Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" o.c.	SPF HF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"
16" o.c.	SPF HF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

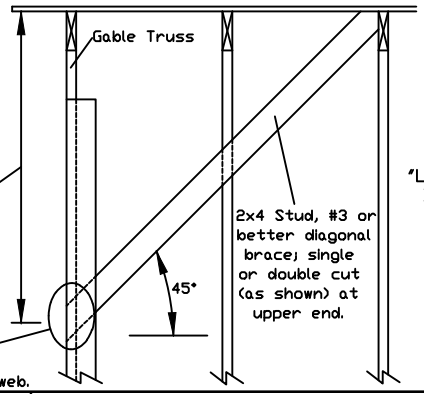
Attach 'L' braces with 10d (0.128"x3.0" min) nails.

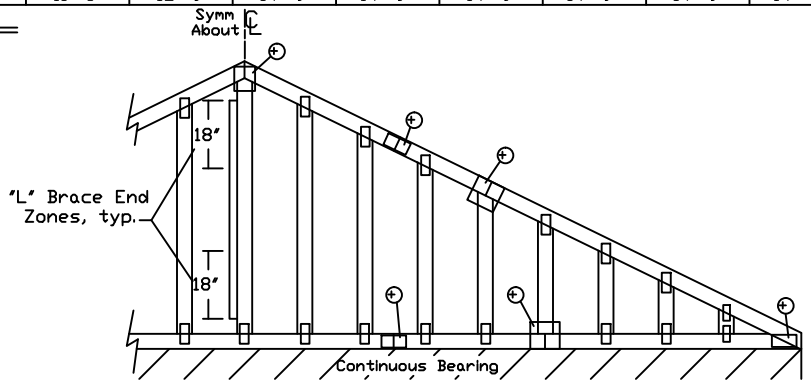
* For (1) 'L' brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) 'L' braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

'L' bracing must be a minimum of 80% of web member length.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 355# at each end. Max web total length is 14'.





Refer to chart above for max gable vertical length.

Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT: FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-16-GAB11530
DATE	01/26/2018
DRWG	A11530ENC160118

ALPINE® ITW COMPANY
Texas Registered Engineering Firm F-3199
Texas Registered Engineering Firm F-3199
MiTek USA, Inc.

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforecement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

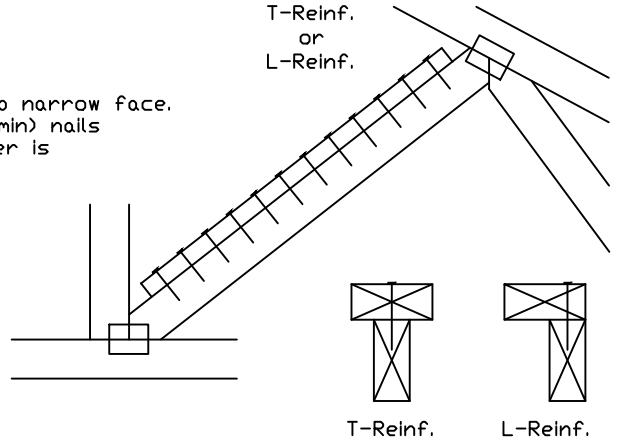
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

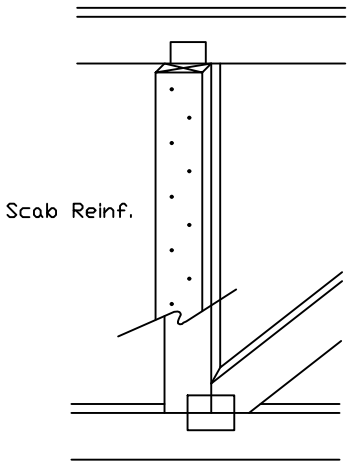
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL	PSF	
TC DL	PSF	
BC DL	PSF	
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

REF	CLR Subst.
DATE	01/02/19
DRWG	BRCLBSUB0119

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C
Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail for lumber, plates, and other information not shown on this detail.

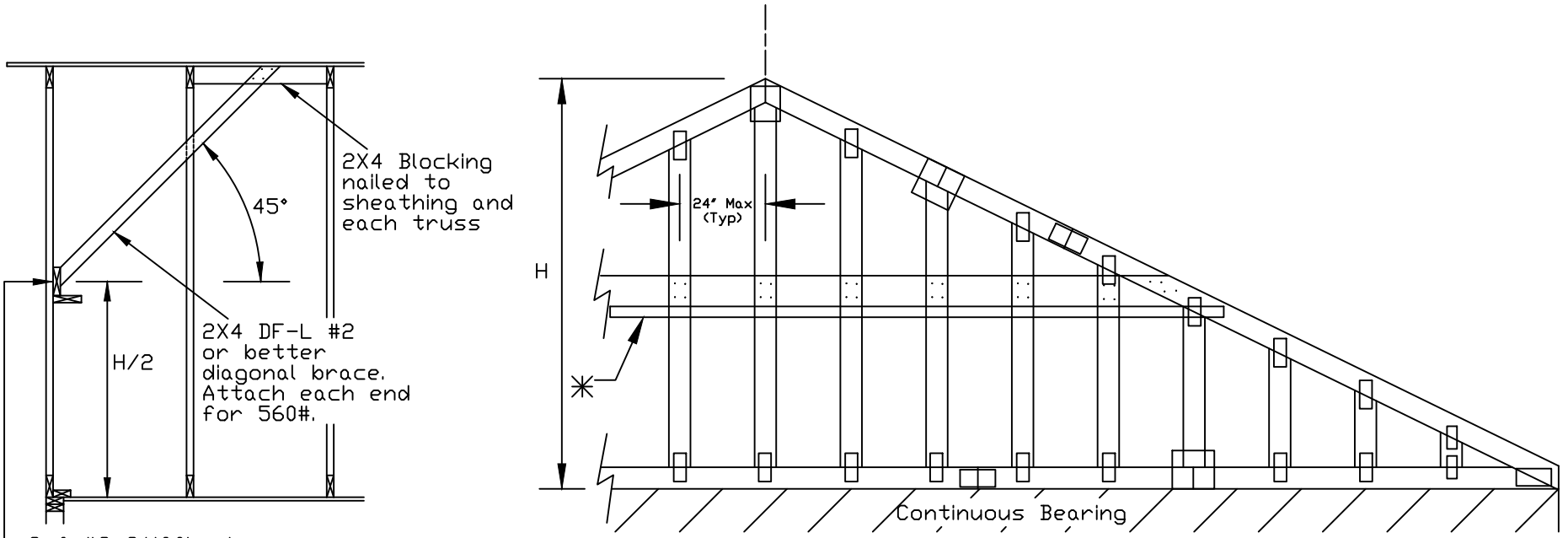
Nails: 10d box or gun (0.128"x3",min) nails.

H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback to roof diaphragm every 6'0" (see detail below or refer to DRWG A12030ENC160118).

H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace to roof diaphragm every 4'0" (see detail below or refer to DRWG A12030ENC160118).

✳ Optional 2x L-reinforcement attached to stiffback with 10d box or gun (0.128" x 3", min.) nails @ 6" o.c.



****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

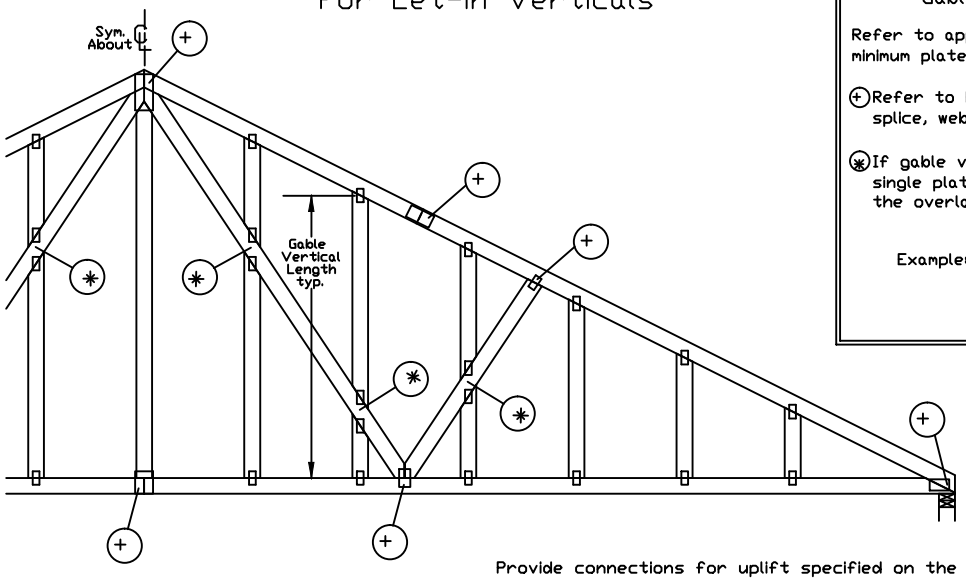
ALPINE® ITW COMPANY

MAX. TOT. LD. 60 PSF

MAX. SPACING

REF	GE WHALER
DATE	01/02/2018
DRWG	GABRST160118

Gable Detail
For Let-in Verticals



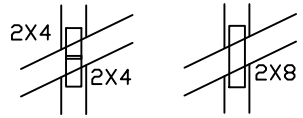
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

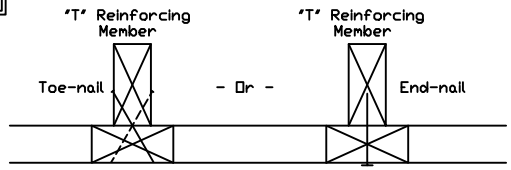
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊛ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



"T" Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:
10d Common (0.148"x 3.",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

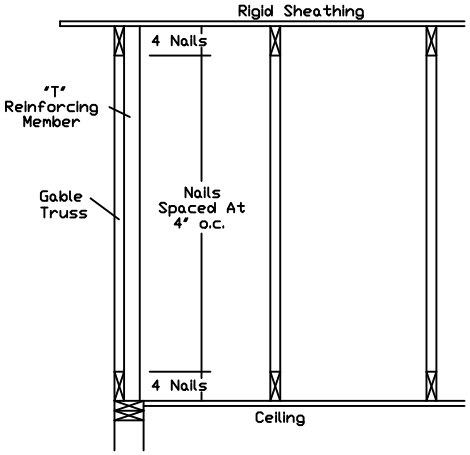
Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24"o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

MAX. TOT. LD. 60 PSF
DUR. FAC. ANY
MAX. SPACING 24.0"

REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118

05/19/2022

Building 11

BOB D. CAMPBELL & CO., INC.

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 11 Truss	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Group 11 Roof Layout

Total Truss Quantity = 349.

Total Plan Area with OHs = 4539 sq.ft

HANGER CHART

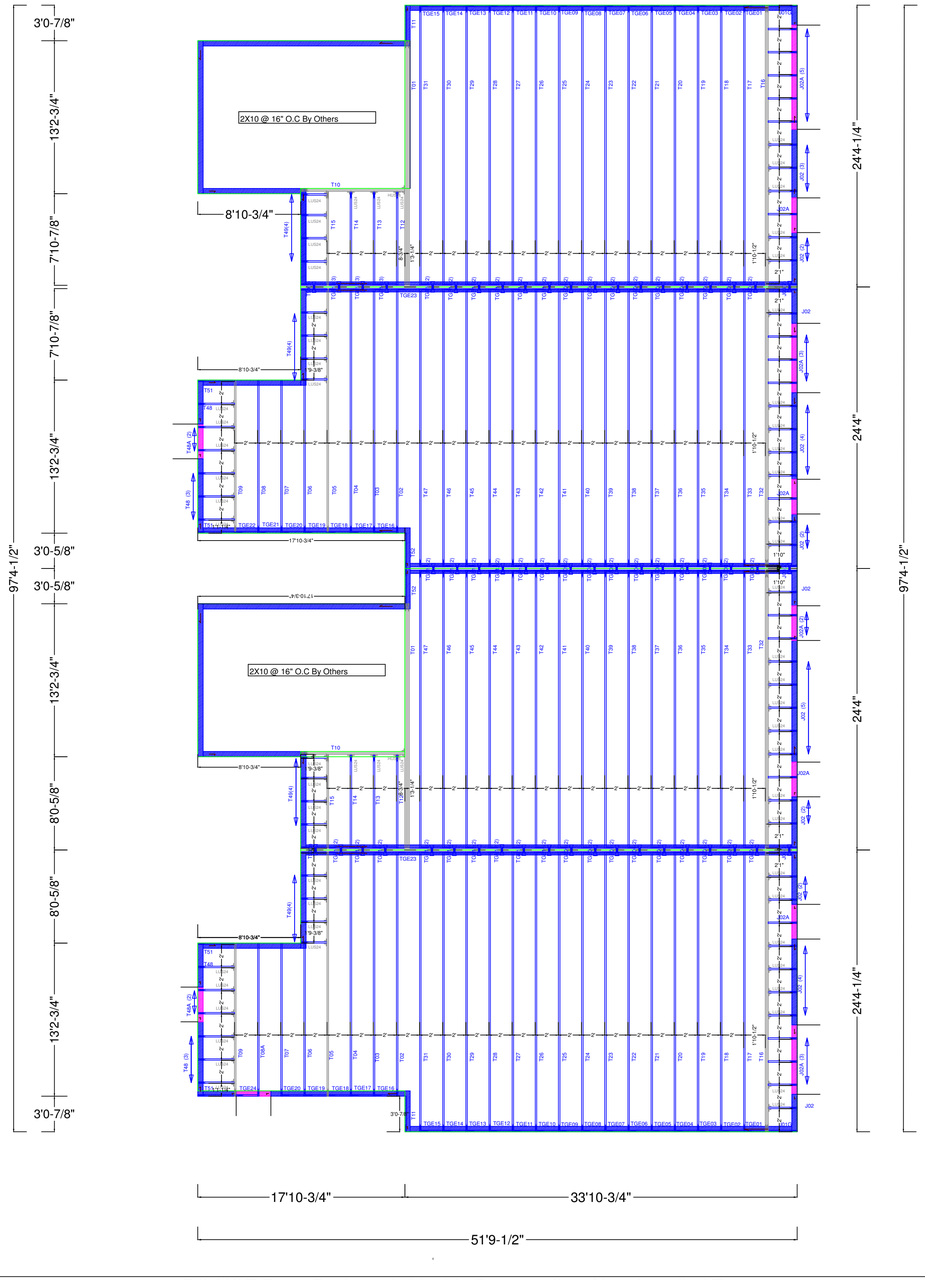
Symbol	Name	Qty	Manufacturer
=	HUS26	2	Simpson
=	LUS24	78	Simpson

BEARING WALL & BEAM HEIGHTS

- 19'8"
- 19'9-3/4"

51'9-1/2"

17'10-3/4" | 33'10-3/4"



SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 BY: CB

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 6/6/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRi ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

Job Name: McCambridge Brothers Construction

Designer: Juan R Quiroz

Date: 5/18/2022

Reference #: JB-220693

mill Creek
3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-9108

ROOF TRUSS LAYOUT (NTS)

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

Building 12

BOB D. CAMPBELL & CO., INC.

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 12 Truss	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

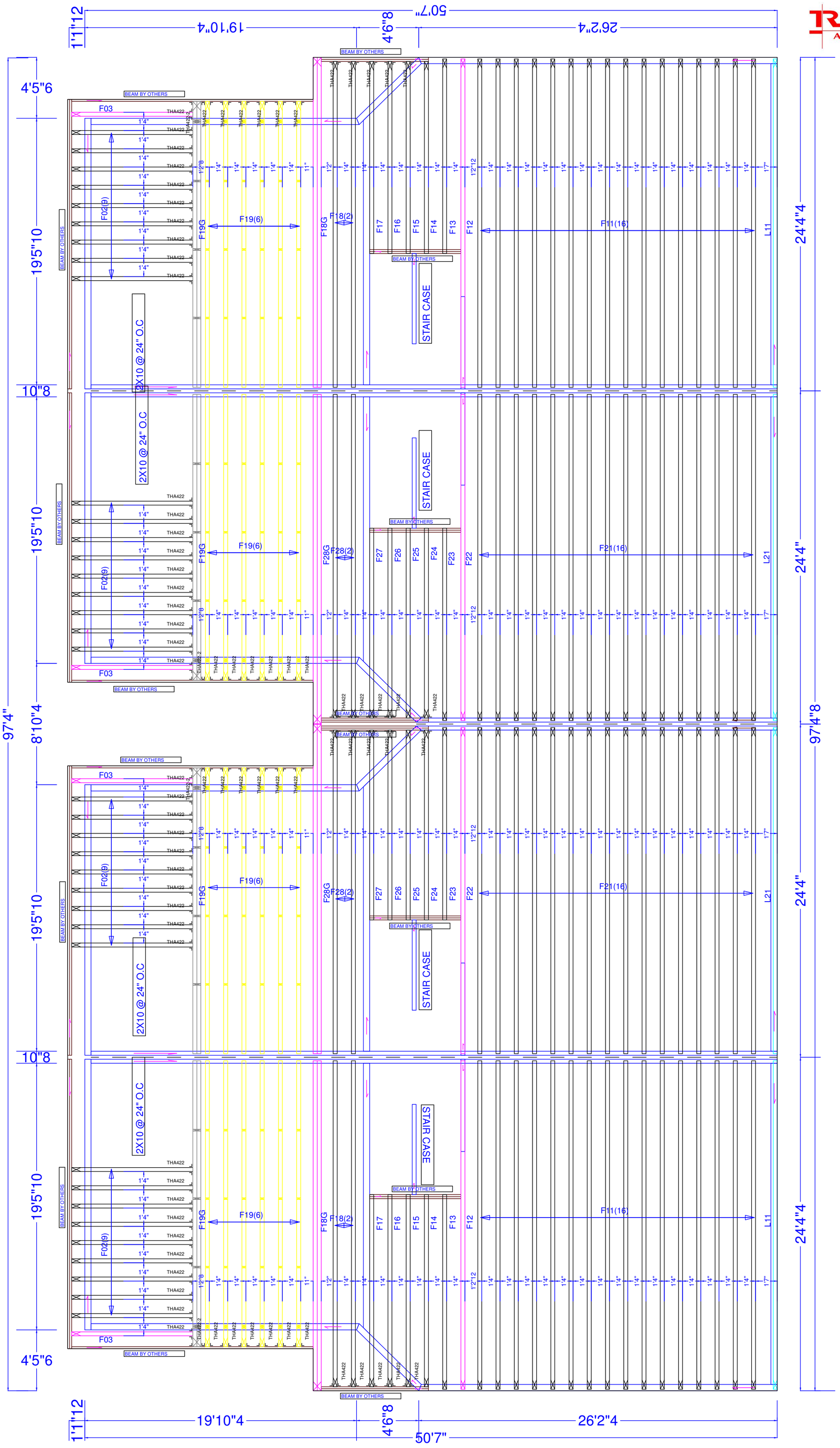
Group 12 Floor Layout

Total Truss Quantity = 180.

Total Plan Area with OHs = 4292 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
=	THA422	126	Simpson
=	THA422-2	4	Simpson



SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED, REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 BY: CB

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 6/6/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED
CHANGE ORDER.

TRi ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

mill Creek
3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-6108

Job Name:

McCambridge Brothers Construction

Customer:

MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Designer: Juan R Quiroz

Address:
2100 NW Lowenstein Dr
Lee's Summit
MO

Reference #: JB-220695

Date: 3/17/2022

Building 12

Alpine, an ITW company
514 Earth City Expressway
Suite 242
Earth City, MO 63045
Phone: (800)326-4102 (314)344-9121
alpineitw.com

03/17/2022

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL CONFORMANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 BY: CB

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 6/6/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRi ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

Site Information:	Page 1:
Customer: Mill Creek Truss	*Job Number:* JB-220695
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1XdX93160010
Wind Standard: ASCE716 *Wind Speed (mph):* 0 *Building Type:*	*Design Loading (psf):* 75.00

This package contains general notes pages, 24 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	076.22.1326.04567	F02
3	076.22.1326.05514	F11
5	076.22.1326.05007	F13
7	076.22.1326.04867	F15
9	076.22.1326.05515	F17
11	076.22.1326.05516	F18G
13	076.22.1326.18597	F19G
15	076.22.1326.05671	F22
17	076.22.1326.04594	F24
19	076.22.1326.04608	F26
21	076.22.1326.04643	F28
23	076.22.1326.05011	L11
25	CNSY42PL0118	
27	LSCSYX2A1014	

Item	Drawing Number	Truss
2	076.22.1326.05006	F03
4	076.22.1326.05135	F12
6	076.22.1326.04868	F14
8	076.22.1326.05438	F16
10	076.22.1326.04593	F18
12	076.22.1326.18483	F19
14	076.22.1326.04531	F21
16	076.22.1326.04863	F23
18	076.22.1326.05143	F25
20	076.22.1326.04597	F27
22	076.22.1326.04573	F28G
24	076.22.1326.05433	L21
26	DEFLCAMB1014	
28	STRBRIBR1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

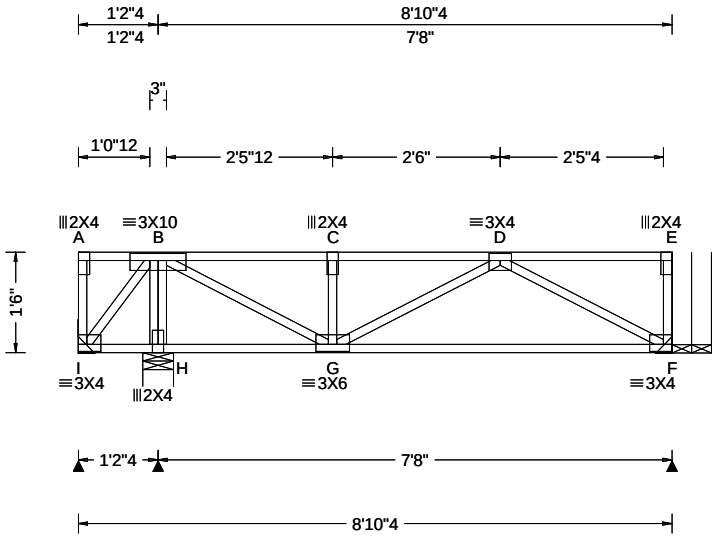
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 12

SEQN: 12902 / SY42 FROM:	Ply: 1 Qty: 36	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F02	Cust: R 9316 JRef:1XdX93160010 T6 DrwNo: 076.22.1326.04567 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.018	C	999	480
VERT(CL): 0.034	C	999	360
HORZ(LL): 0.002	F	-	-
HORZ(TL): 0.004	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.299
Max BC CSI: 0.301
Max Web CSI: 0.162

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	28	/-43	/-	/-	/-	/-
H	525	/-	/-	/-	/-	/-
F	372	/-	/-	/-	/-	/-

I Brg Wid = - Min Req = -
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
F Brg Wid = - Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-485	C - D	0	-485

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	473	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - H	0	-499	D - F	0	-537
B - G	576	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

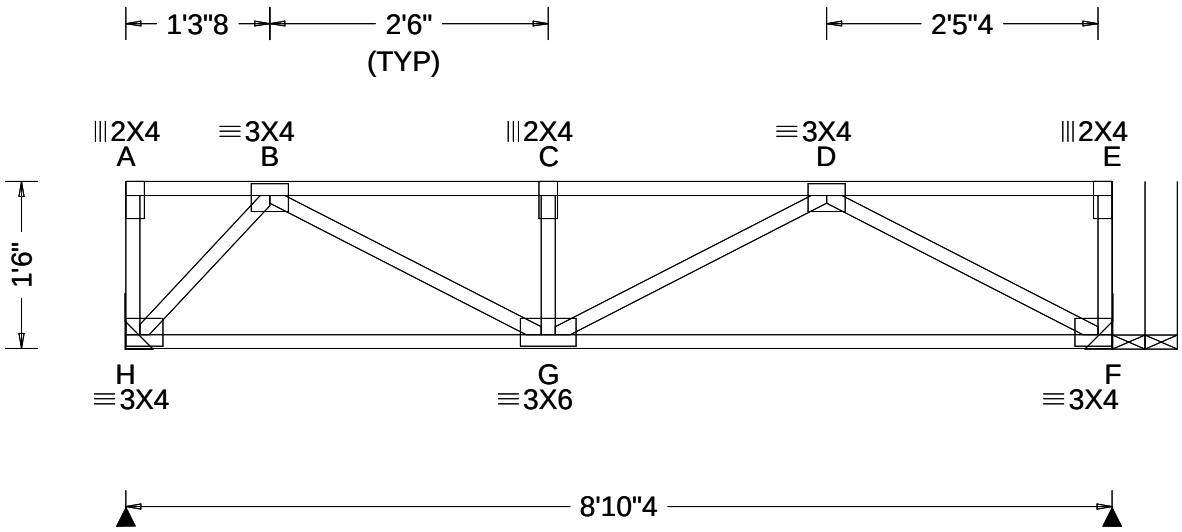
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12904 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F03	Cust: R 9316 JRef:1XdX93160010 T7 / DrwNo: 076.22.1326.05006 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.024	C	999	480
VERT(CL): 0.046	C	999	360
HORZ(LL): 0.004	B	-	-
HORZ(TL): 0.008	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.298
Max BC CSI: 0.324
Max Web CSI: 0.141

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	443	/-	/-	/-	/-	/-
F	443	/-	/-	/-	/-	/-

H Brg Wid = - Min Req = -
F Brg Wid = - Min Req = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-747	C - D	0	-747

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	606	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - B	0	-546	D - F	0	-687
B - G	426	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

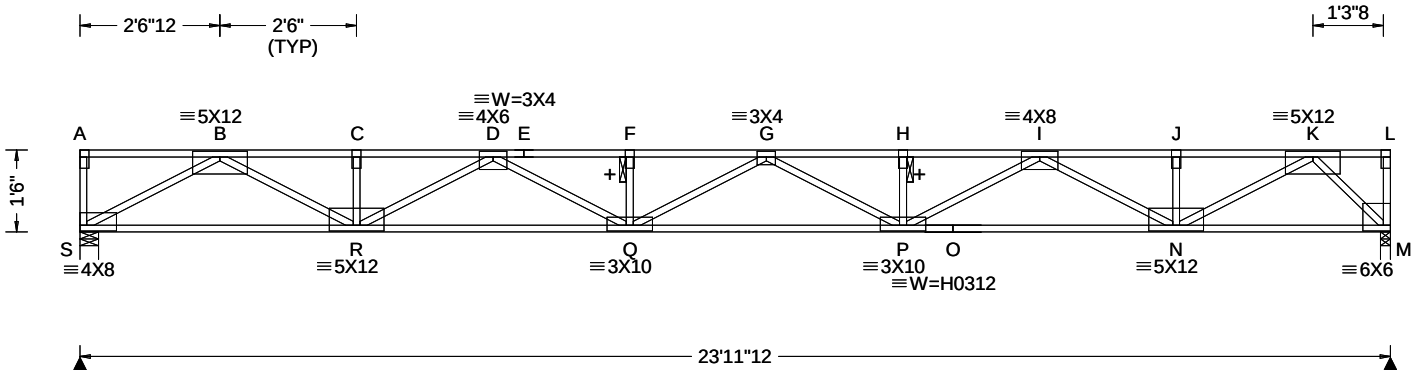
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12906 / SY42 FROM:	Ply: 1 Qty: 32	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F11	Cust: R 9316 JRef:1XdX93160010 T28 / DrwNo: 076.22.1326.05514 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.414	G	695	480
VERT(CL): 0.775	G	371	360
HORZ(LL): 0.057	M	-	-
HORZ(TL): 0.107	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.398
Max BC CSI: 0.672
Max Web CSI: 0.551

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	1199	/-	/-	/-	/-	/-
M	1199	/-	/-	/-	/-	/-

S Brg Wid = 4.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3522	G - H	0	-4917
C - D	0	-3522	H - I	0	-4917
D - E	0	-5123	I - J	0	-2895
E - F	0	-5123	J - K	0	-2895
F - G	0	-5123			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	2010	0	P - O	4106	0
R - Q	4523	0	O - N	4106	0
Q - P	5219	0	N - M	1183	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2281	P - I	925	0
B - R	1725	0	I - N	0	-1382
R - D	0	-1143	N - K	1954	0
D - Q	684	0	K - M	0	-1648

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

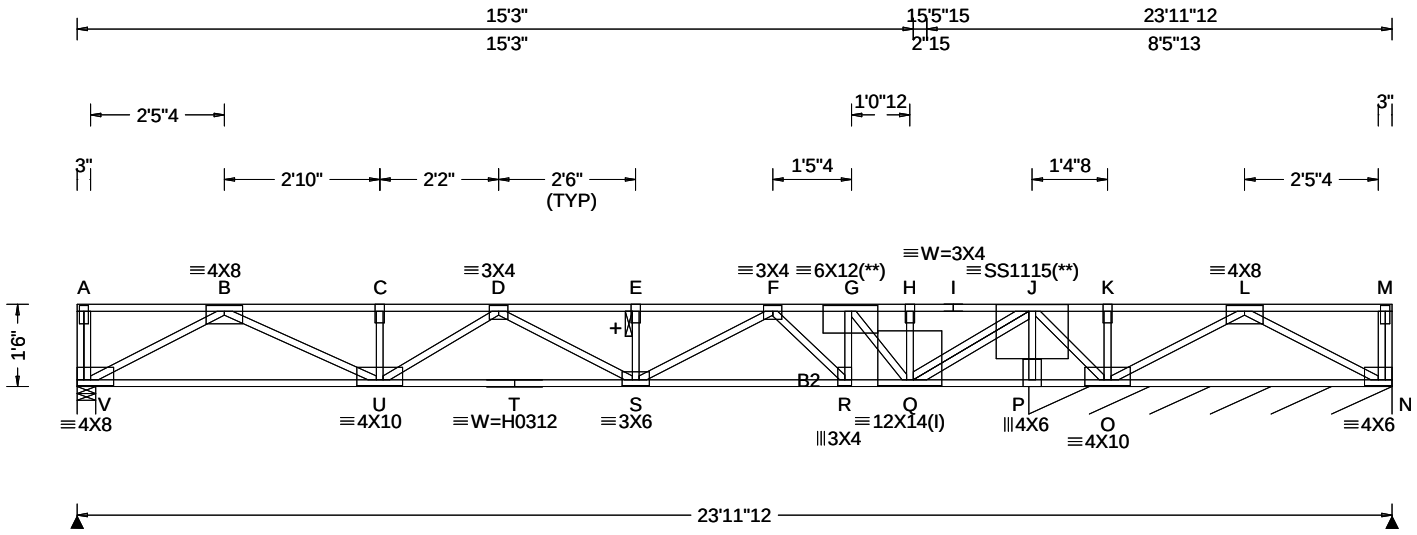
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12908 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F12	Cust: R 9316 JRef:1XdX93160010 T1 / DrwNo: 076.22.1326.05135 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.201	E	999	480
VERT(CL): 0.377	E	545	360
HORZ(LL): 0.029	B	-	-
HORZ(TL): 0.054	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.946
Max BC CSI: 0.960
Max Web CSI: 0.568

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	443	/-	/-	/-	/-	/-
N		/-304				

V Brg Wid = 4.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2615	G - H	0	-818
C - D	0	-2615	H - I	0	-818
D - E	0	-3202	I - J	0	-818
E - F	0	-3202	J - K	2031	0
F - G	0	-2426	K - L	2031	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1461	0	R - Q	2382	0
U - T	3059	0	Q - P	0	-2607
T - S	3059	0	P - O	0	-2607
S - R	2851	0	O - N	0	-784

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1680	G - Q	0	-2558
B - U	1283	0	Q - J	4025	0
U - D	0	-526	J - P	0	-2889
S - F	401	0	J - O	816	0
F - R	0	-615	O - L	0	-1423
R - G	488	0	L - N	897	0

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.98
BC: From 13 plf at 0.00 to 13 plf at 23.98
TC: 1500 lb Conc. Load at 14.06

Plating Notes
All plates are 2X4 except as noted.
(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

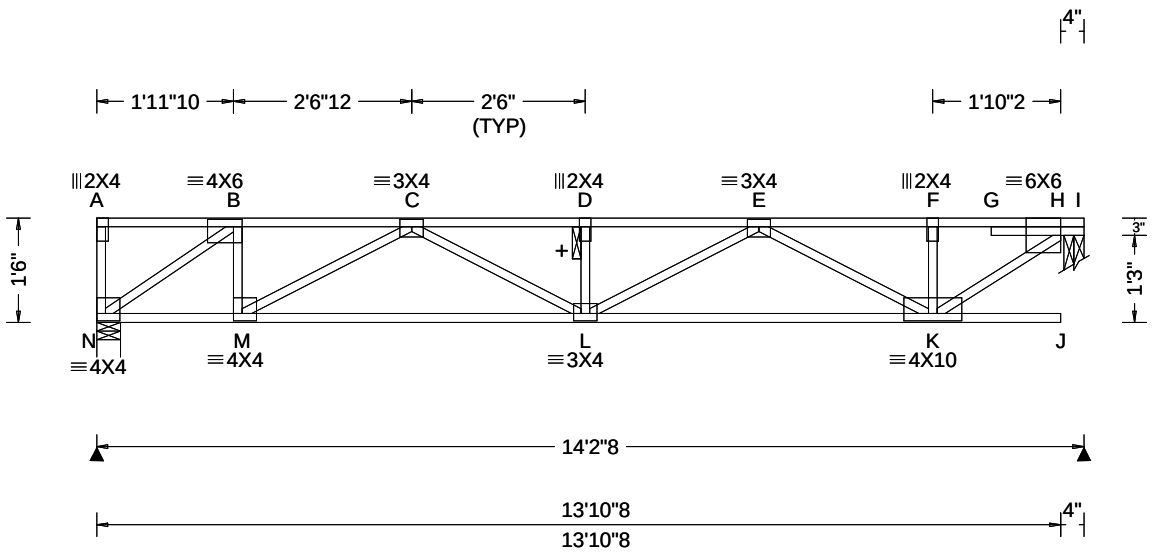
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12910 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F13	Cust: R 9316 JRef:1XdX93160010 T23 / DrwNo: 076.22.1326.05007 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.096	D	999	480
VERT(CL): 0.179	D	942	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.030	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.620
Max BC CSI: 0.537
Max Web CSI: 0.329

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	702	/-	/-	/-	/-	/-
H	714	/-	/-	/-	/-	/-

N Brg Wid = 4.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-943	E - F	0	-943
C - D	0	-1836	F - H	0	-942
D - E	0	-1836			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	905	0	L - K	1574	0
M - L	1582	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1104	E - K	0	-721
B - M	416	0	K - H	1166	0
M - C	0	-734			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

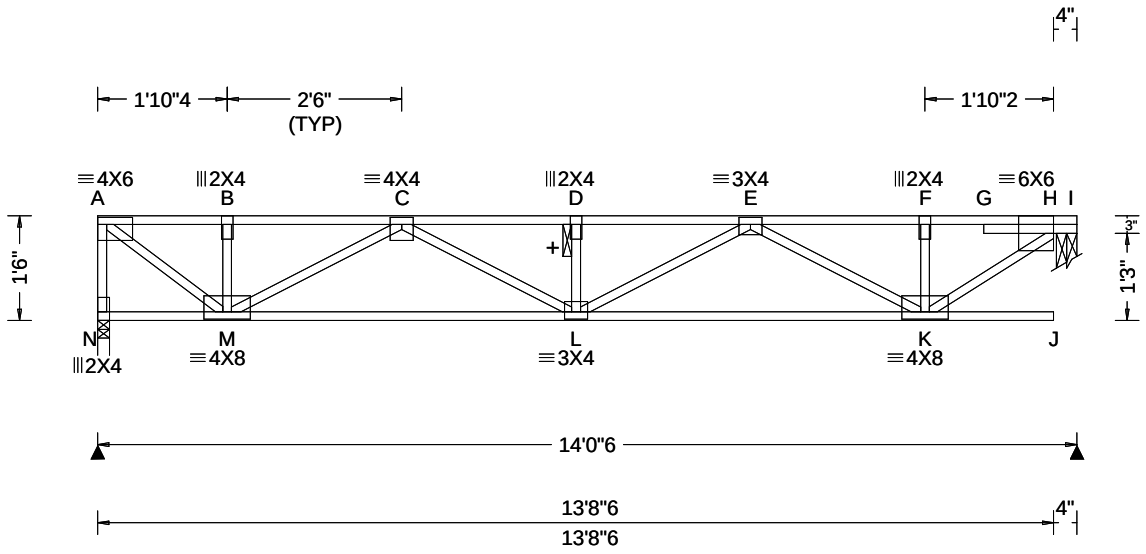
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12912 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F14	Cust: R 9316 JRef:1XdX93160010 T15 / DrwNo: 076.22.1326.04868 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.093	D	999	480
VERT(CL): 0.174	D	955	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.612
Max BC CSI: 0.524
Max Web CSI: 0.324

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	693	/-	/-		/-	/-	/-
H	706	/-	/-		/-	/-	/-

N Brg Wid = 2.0 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-849	D - E	0	-1791
B - C	0	-849	E - F	0	-929
C - D	0	-1791	F - H	0	-929

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1520	0	L - K	1546	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-690	E - K	0	-703
A - M	1057	0	K - H	1150	0
M - C	0	-766			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

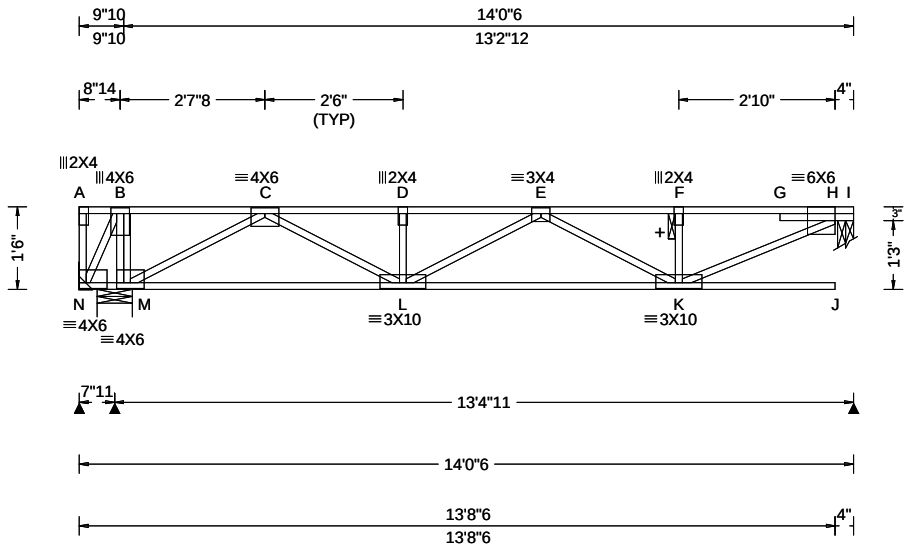
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12914 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F15	Cust: R 9316 JRef:1XdX93160010 T26 / DrwNo: 076.22.1326.04867 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.200	J	780	480
VERT(CL): 0.320	J	487	360
HORZ(LL): 0.011	C	-	-
HORZ(TL): 0.020	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.961
Max BC CSI: 0.588
Max Web CSI: 0.339

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-708	/-	/-	/-	/-
N	1480	/-	/-	/-	/-	/-
H	618	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
N Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	400	0	E - F	0	-1087
C - D	0	-1207	F - H	0	-1088
D - E	0	-1207			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	600	0	L - K	1318	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	685	0	C - L	693	0
B - M	0	-840	K - H	1201	0
M - C	0	-1141			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -708# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

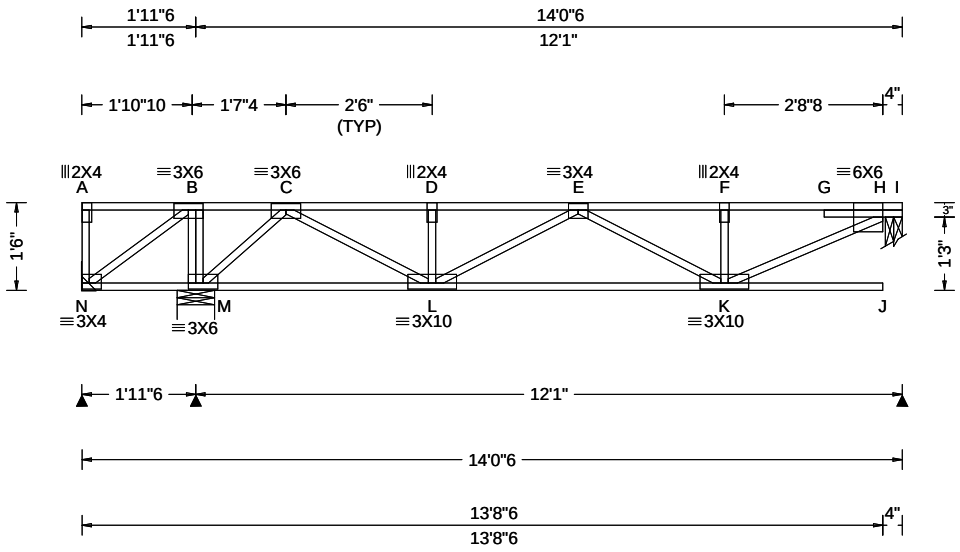
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12916 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F16	Cust: R 9316 JRef:1XdX93160010 T33 / DrwNo: 076.22.1326.05438 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.159	J	897	480
VERT(CL): 0.249	J	570	360
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.283

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-323	/-	/-	/-	/-
M	1131	/-	/-	/-	/-	/-
I	547	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	511	0	E - F	0	-901
C - D	0	-818	F - H	0	-903
D - E	0	-818			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-469	L - K	1034	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	580	0	C - L	816	0
B - M	0	-512	K - H	1004	0
M - C	0	-842			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

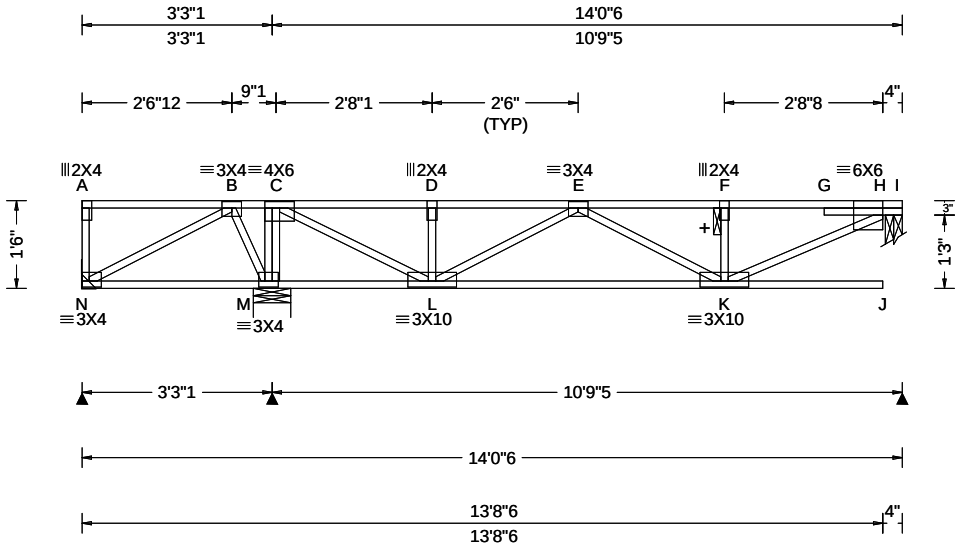
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12918 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F17	Cust: R 9316 JRef:1XdX93160010 T20 / DrwNo: 076.22.1326.05515 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	870	480
VERT(CL): 0.233	J	550	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.749
Max BC CSI: 0.437
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	57	/-122	/-	/-	/-	/-
M	959	/-	/-	/-	/-	/-
I	491	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	423	0	E - F	0	- 784
C - D	0	- 500	F - H	0	- 785
D - E	0	- 500			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	818	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	- 627	K - H	874	0
C - L	963	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

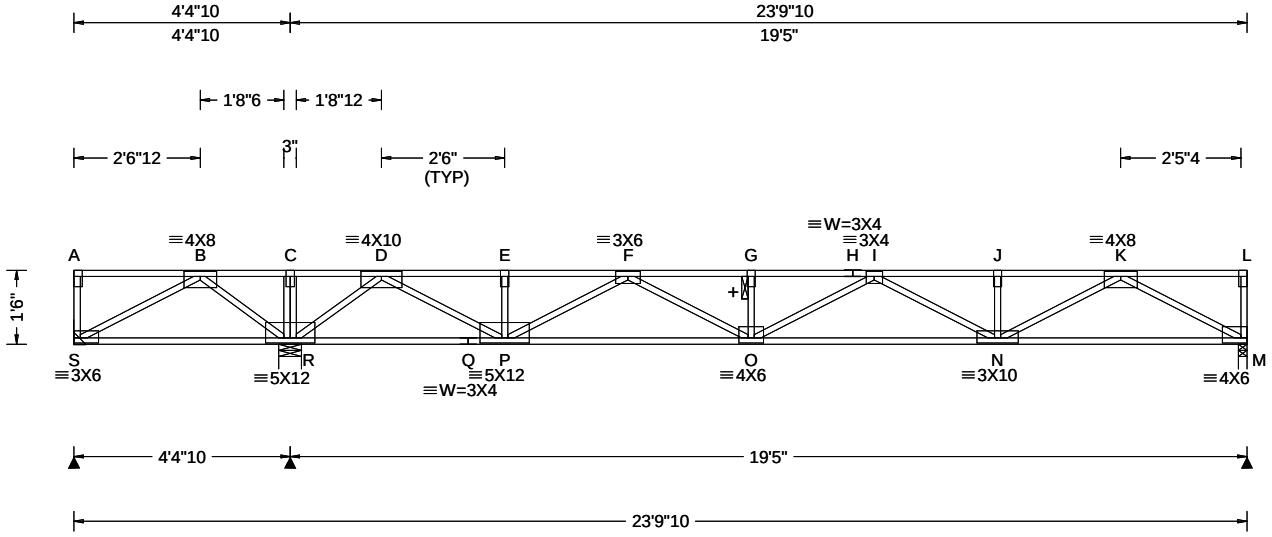
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12920 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18	Cust: R 9316 JRef:1XdX93160010 T16 / DrwNo: 076.22.1326.04593 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	G	999	480
VERT(CL): 0.371	G	628	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.796
Max Web CSI: 0.466

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	-	/-458	/-	/-	/-	/-
R	1886	/-	/-	/-	/-	/-
M	844	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1750	0	G - H	0	- 2537
C - D	1750	0	H - I	0	- 2537
D - E	0	- 1040	I - J	0	- 2220
E - F	0	- 1040	J - K	0	- 2220
F - G	0	- 2537			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	- 955	P - O	1987	0
R - Q	0	- 427	O - N	2580	0
Q - P	0	- 427	N - M	1352	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1084	0	F - O	631	0
B - R	0	- 1117	I - N	0	- 411
R - D	0	- 1648	N - K	991	0
D - P	1653	0	K - M	0	- 1535
P - F	0	- 1085			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -458# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

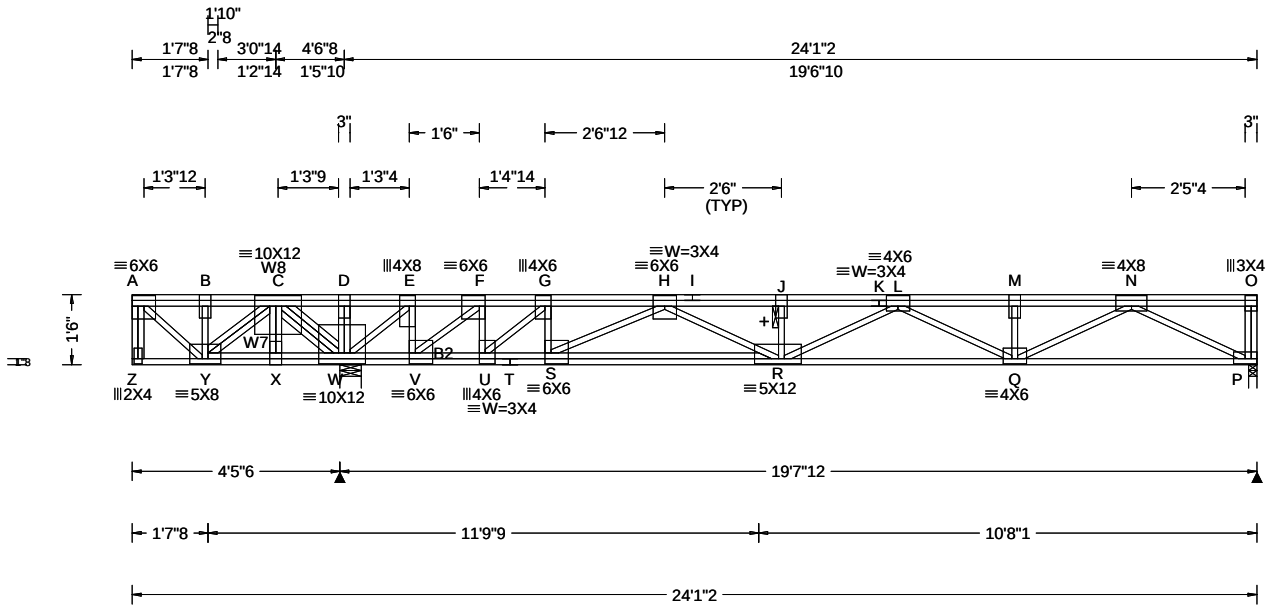
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12922 / SY42 FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18G	Cust: R 9316 JRef:1XdX93160010 T17 / DrwNo: 076.22.1326.05516 / NDW 03/17/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.124 Z	435	480
VERT(CL):	0.263 Z	204	360
HORZ(LL):	-0.027 A	-	-
HORZ(TL):	0.058 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.885
Max BC CSI: 0.247
Max Web CSI: 0.249

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	8317	/-	/-	/-	/-	/-
P	962	/-165	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	420	0	H - I	1554	-1705
B - C	420	0	I - J	1554	-1705
C - D	4753	0	J - K	1551	-1711
D - E	4749	0	K - L	1551	-1711
E - F	4209	-367	L - M	534	-1347
F - G	3615	-827	M - N	534	-1347
G - H	3087	-1193			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	-1228	T - S	1169	-3130
X - W	0	-1219	S - R	1563	-2265
W - V	329	-4254	R - Q	1631	-993
V - U	793	-3663	Q - P	784	-222
U - T	1169	-3130			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	-548	G - S	539	0
Y - C	1053	0	S - H	0	-1139
C - W	0	-4787	H - R	869	0
W - E	0	-999	R - L	89	-626
E - V	636	0	L - Q	518	-321
V - F	0	-1035	Q - N	636	-353
F - U	652	0	N - P	250	-860
U - G	0	-919			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7,W8 4x2 DF-L 2400f-2.0E;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes

All plates are 3X6 except as noted.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

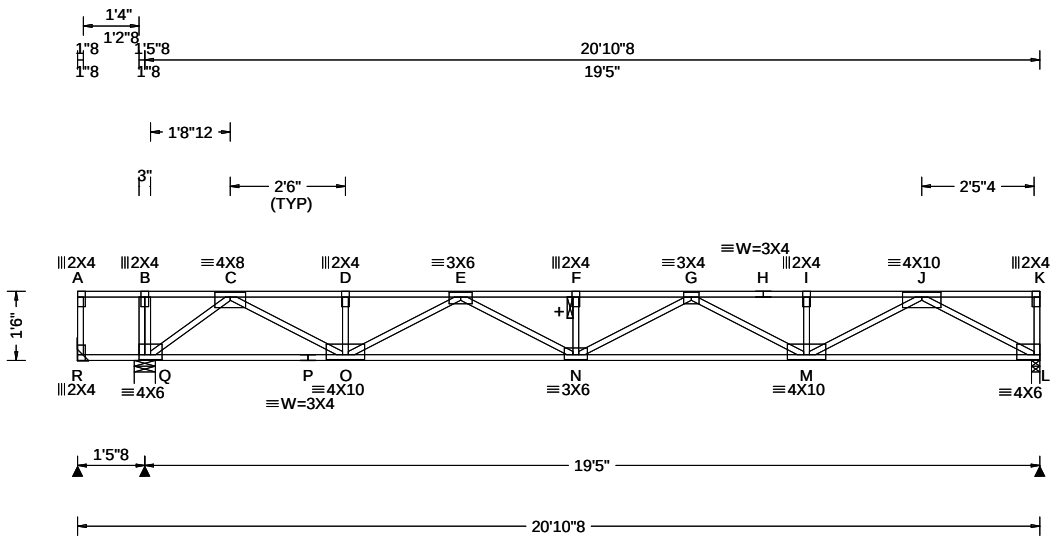
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 9754 / SY42 FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19	Cust: R 9316 JRef:1XdX93160010 T34 / DrwNo: 076.22.1326.18483 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.246	F	943	480
VERT(CL): 0.462	F	502	360
HORZ(LL): 0.038	L	-	-
HORZ(TL): 0.072	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.485
Max BC CSI: 0.960
Max Web CSI: 0.397

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	27	/-42	/-	/-	/-	/-
Q	1134	/-	/-	/-	/-	/-
L	962	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	- 2320	G - H	0	- 2651
D - E	0	- 2320	H - I	0	- 2651
E - F	0	- 3393	I - J	0	- 2651
F - G	0	- 3393			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1089	0	N - M	3224	0
P - O	1089	0	M - L	1570	0
O - N	3055	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - C	0	- 1383	G - M	0	- 654
C - O	1407	0	M - J	1233	0
O - E	0	- 839	J - L	0	- 1782
E - N	387	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

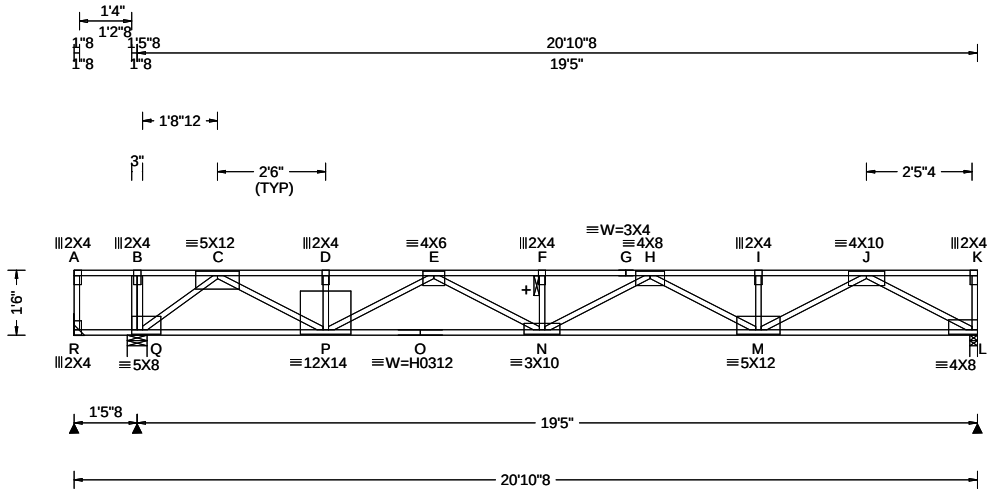
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 9756 / SY42 FROM:	Ply: 2 Qty: 4	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19G	Cust: R 9316 JRef:1XdX93160010 T8 / DrwNo: 076.22.1326.18597 / NDW 03/17/2022

2 Complete Trusses Required



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 40.00		Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 25.00		Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.290 F 799 480
BCLL: 0.00		Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.545 F 426 360
BCDL: 10.00		Category: NA	Snow Duration: NA	HORZ(LL): 0.041 C - -
Des Ld: 75.00		EXP: NA Kzt: NA		HORZ(TL): 0.076 C - -
NCBCLL: 0.00		Mean Height: NA ft	Building Code:	Creep Factor: 2.0
Soffit: 0.00		TCDL: NA psf	IBC 2018	Max TC CSI: 0.583
Load Duration: 1.00		BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.585
Spacing: 16.0 "		MWFRS Parallel Dist: NA	Rep Fac: Varies by Ld Case	Max Web CSI: 0.629
		C&C Dist a: NA ft	FT/RT:12(0)/10(0)	
		Loc. from endwall: NA	Plate Type(s):	
		I: NA GCpi: NA	WAVE, HS	VIEW Ver: 21.02.00.1005.17
		Wind Duration: NA		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	24	/-58	/-	/-	/-	/-
Q	3942	/-	/-	/-	/-	/-
L	1997	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-3789	G - H	0	-5138
D - E	0	-3789	H - I	0	-3219
E - F	0	-5138	I - J	0	-3219
F - G	0	-5138			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1835	0	N - M	4478	0
P - O	4877	0	M - L	1748	0
O - N	4877	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - Q	0	-465	F - N	0	-473
Q - C	0	-2340	N - H	753	0
C - P	2229	0	H - M	0	-1437
D - P	0	-467	M - J	1679	0
P - E	0	-1242	J - L	0	-1984

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 20.88
BC: From 13 plf at 0.00 to 13 plf at 20.88
TC: 443 lb Conc. Load at 0.94
TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27 7.60, 8.94,10.27,11.60,12.94

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

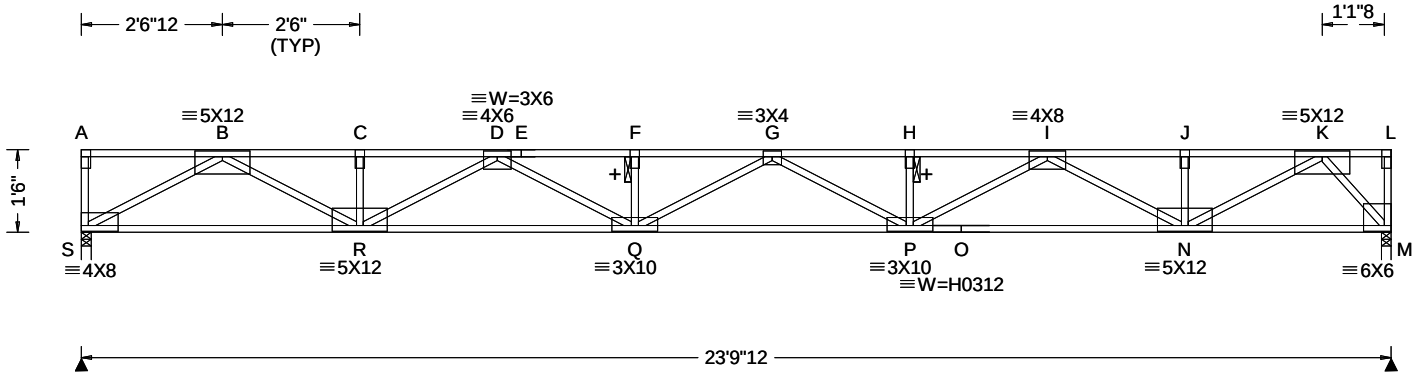
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12924 / SY42 FROM:	Ply: 1 Qty: 32	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F21	Cust: R 9316 JRef:1XdX93160010 T19 / DrwNo: 076.22.1326.04531 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.419	G	682	480
VERT(CL): 0.785	G	364	360
HORZ(LL): 0.056	M	-	-
HORZ(TL): 0.104	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.442
Max BC CSI: 0.664
Max Web CSI: 0.556

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	1191	/-	/-	/-	/-	/-
M	1191	/-	/-	/-	/-	/-

S Brg Wid = 2.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3491	G - H	0	-4826
C - D	0	-3491	H - I	0	-4826
D - E	0	-5062	I - J	0	-2773
E - F	0	-5062	J - K	0	-2773
F - G	0	-5062			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	1995	0	P - O	4000	0
R - Q	4479	0	O - N	4000	0
Q - P	5145	0	N - M	1047	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2264	P - I	942	0
B - R	1707	0	I - N	0	-1401
R - D	0	-1127	N - K	1969	0
D - Q	665	0	K - M	0	-1557

Lumber
Top chord: 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

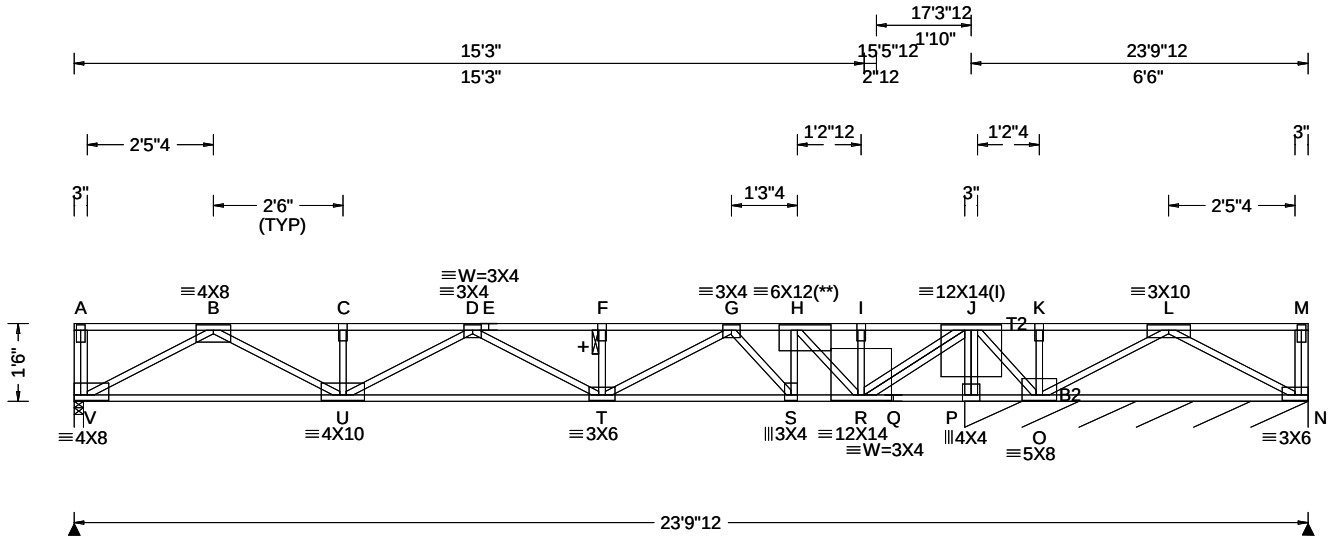
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12926 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F22	Cust: R 9316 JRef:1XdX93160010 T2 / DrwNo: 076.22.1326.05671 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.179	F	999	480
VERT(CL): 0.335	F	613	360
HORZ(LL): 0.026	B	-	-
HORZ(TL): 0.049	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.504
Max BC CSI: 0.472
Max Web CSI: 0.548

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	441	/-	/-	/-	/-	/-
N		/-246				

V Brg Wid = 2.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2565	G - H	0	-2521
C - D	0	-2565	H - I	0	-698
D - E	0	-3256	I - J	0	-698
E - F	0	-3256	J - K	1825	0
F - G	0	-3256	K - L	1825	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1507	0	R - Q	0	-2561
U - T	3113	0	Q - P	0	-2561
T - S	2904	0	P - O	0	-2561
S - R	2477	0	O - N	0	-681

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1714	H - R	0	-2670
B - U	1208	0	R - J	3882	0
U - D	0	-625	J - P	0	-3088
T - G	402	0	J - O	1065	0
G - S	0	-598	O - L	0	-1307
S - H	486	0	L - N	779	0

Lumber

Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)

TC: From	87 plf at	0.00 to	87 plf at	23.81
BC: From	13 plf at	0.00 to	13 plf at	23.81

TC: 1500 lb Conc. Load at 13.90

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

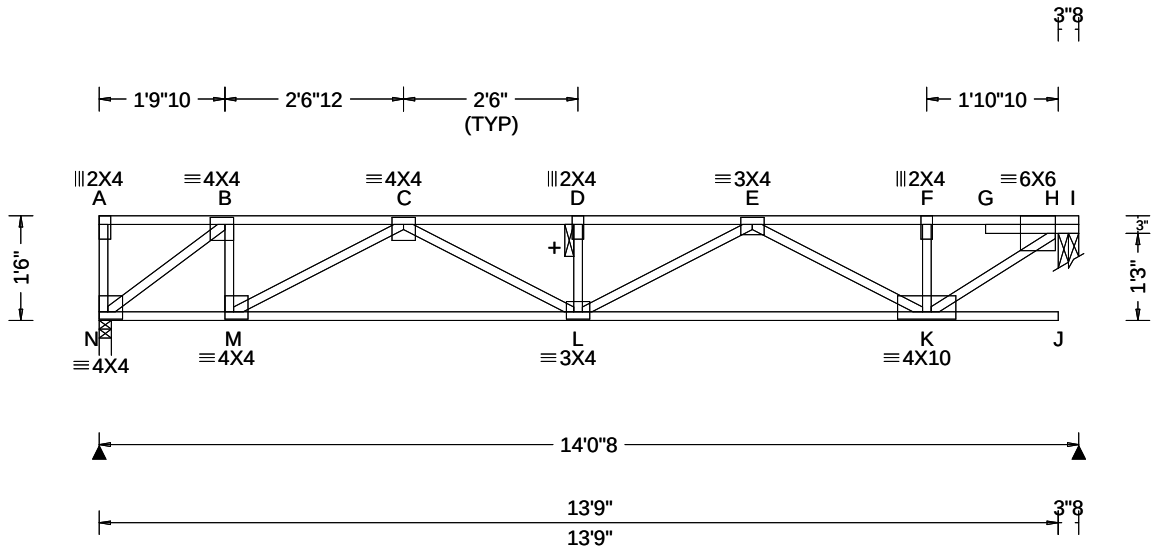
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12928 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F23	Cust: R 9316 JRef:1XdX93160010 T25 / DrwNo: 076.22.1326.04863 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.092	D	999	480
VERT(CL): 0.172	D	970	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.029	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.613
Max BC CSI: 0.522
Max Web CSI: 0.325

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	694	/-	/-	/-	/-	/-
H	707	/-	/-	/-	/-	/-

N Brg Wid = 2.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-869	E - F	0	-931
C - D	0	-1793	F - H	0	-930
D - E	0	-1793			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	831	0	L - K	1548	0
M - L	1525	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1045	E - K	0	-704
B - M	425	0	K - H	1152	0
M - C	0	-752			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

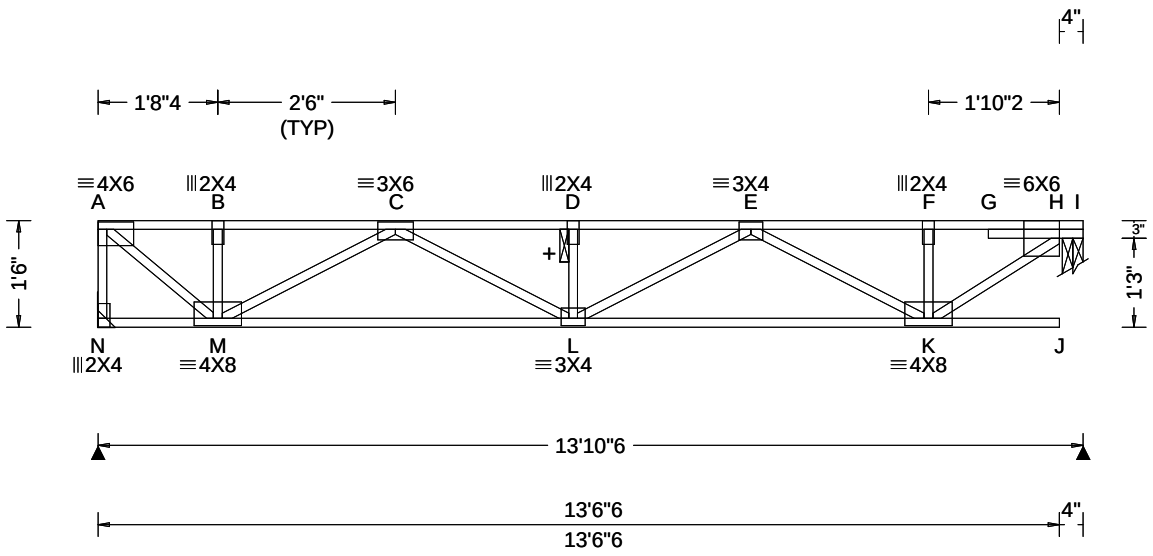
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12930 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F24	Cust: R 9316 JRef:1XdX93160010 T3 / DrwNo: 076.22.1326.04594 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00

Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.090	D	999	480
VERT(CL): 0.167	D	982	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.604
Max BC CSI: 0.513
Max Web CSI: 0.320

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	685	/-	/-	/-	/-	/-
H	697	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-776	D - E	0	-1749
B - C	0	-776	E - F	0	-917
C - D	0	-1749	F - H	0	-916

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1463	0	L - K	1518	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-684	E - K	0	-687
A - M	1001	0	K - H	1134	0
M - C	0	-784			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

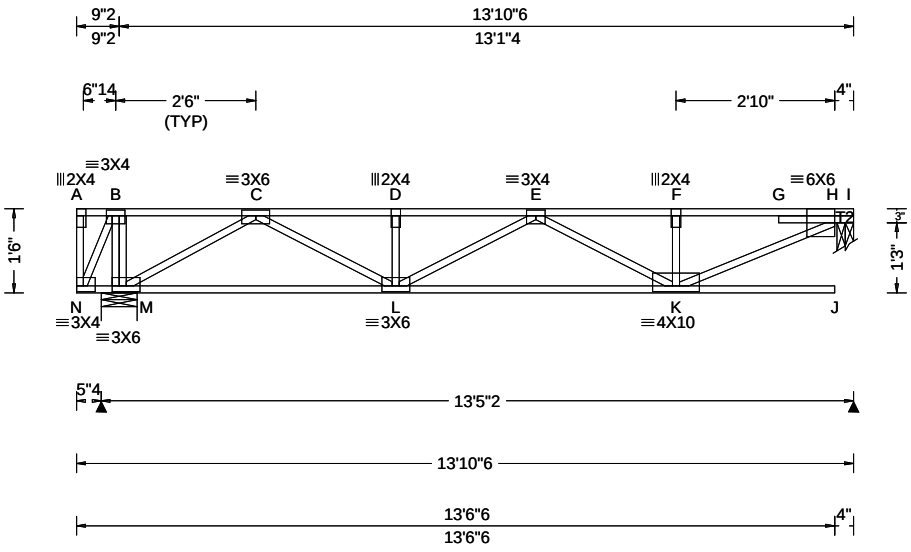
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12932 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F25	Cust: R 9316 JRef:1XdX93160010 T11 / DrwNo: 076.22.1326.05143 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	J	784	480
VERT(CL): 0.316	J	488	360
HORZ(LL): 0.013	A	-	-
HORZ(TL): 0.024	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.609
Max BC CSI: 0.630
Max Web CSI: 0.367

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
M	729	/-	/-	/-	/-	/-
H	659	/-	/-	/-	/-	/-

M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-1447	E - F	0	-1177
D - E	0	-1447	F - H	0	-1178

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	912	0	L - K	1482	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	-1015	K - H	1301	0
C - L	614	0			

Lumber

Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

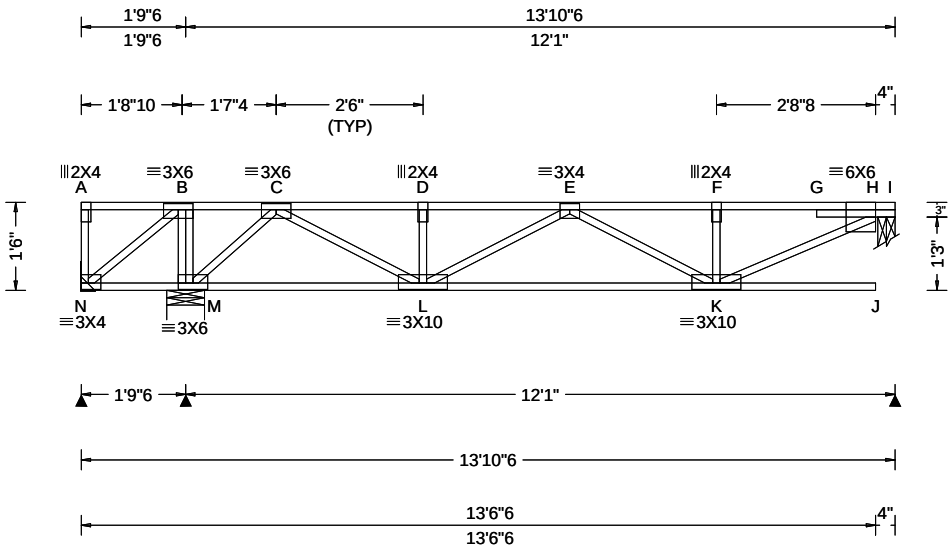
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12934 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F26	Cust: R 9316 JRef:1XdX93160010 T5 / DrwNo: 076.22.1326.04608 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.158	J	897	480
VERT(CL): 0.249	J	570	360
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.284

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-358	/-	/-	/-	/-
M	1154	/-	/-	/-	/-	/-
H	547	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	510	0	E - F	0	-902
C - D	0	-819	F - H	0	-903
D - E	0	-819			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-465	L - K	1035	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	596	0	C - L	815	0
B - M	0	-533	K - H	1005	0
M - C	0	-843			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

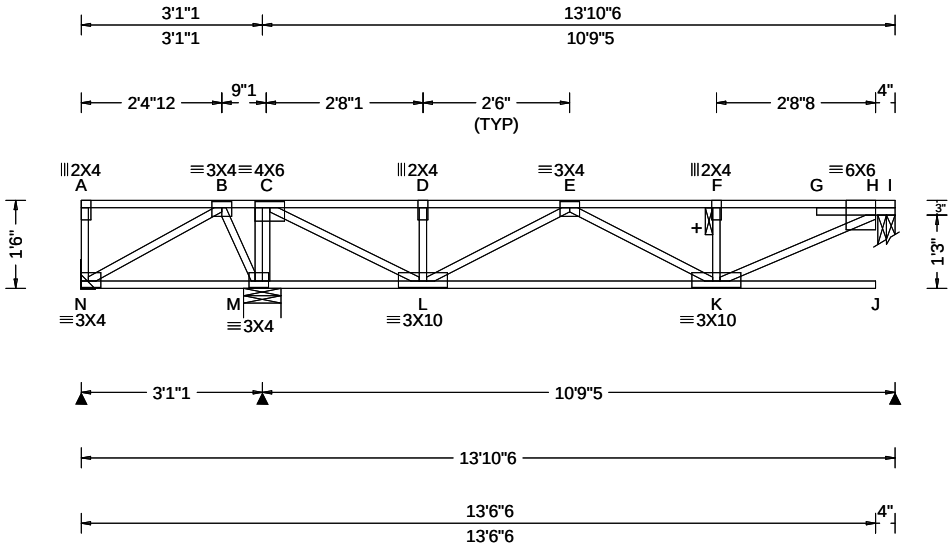
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12936 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F27	Cust: R 9316 JRef:1XdX93160010 T9 / DrwNo: 076.22.1326.04597 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	869	480
VERT(CL): 0.233	J	549	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.748
Max BC CSI: 0.436
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
N	44 /-139	/-	/-	/-	/-	
M	963 /-	/-	/-	/-	/-	
H	491 /-	/-	/-	/-	/-	

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	427	0	E - F	0	- 782
C - D	0	- 495	F - H	0	- 784
D - E	0	- 495			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	815	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	- 633	K - H	872	0
C - L	964	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

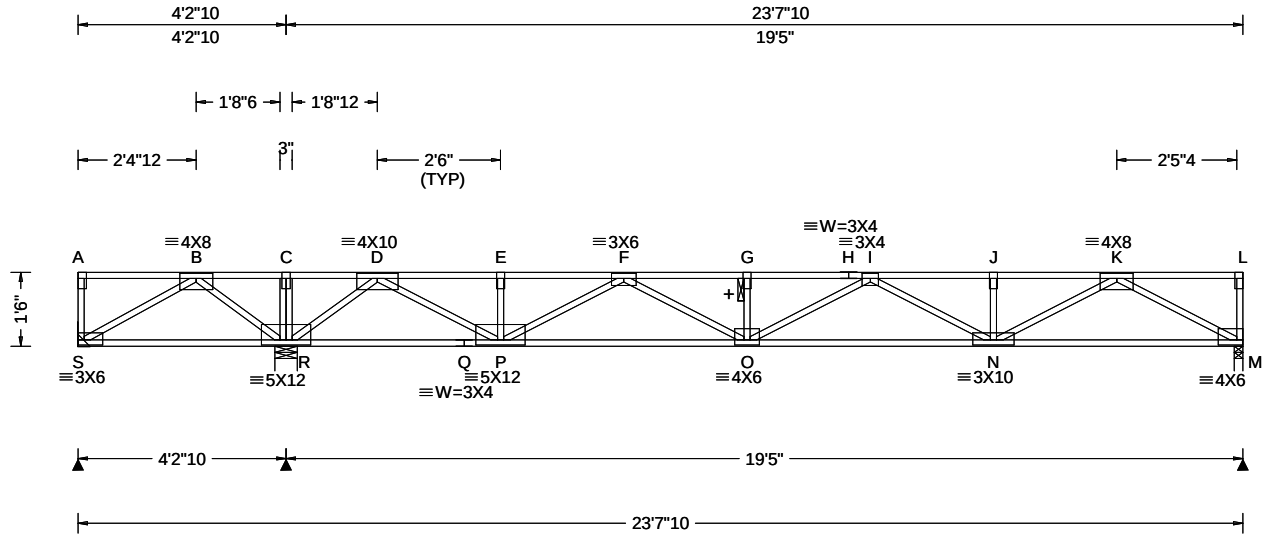
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12938 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F28	Cust: R 9316 JRef:1XdX93160010 T10 / DrwNo: 076.22.1326.04643 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.196	G	999	480
VERT(CL): 0.369	G	630	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.795
Max Web CSI: 0.467

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
S	- /-490	/-	/-	/-	/-	
R	1906 /-	/-	/-	/-	/-	
M	843 /-	/-	/-	/-	/-	

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1763	0	G - H	0	-2527
C - D	1763	0	H - I	0	-2527
D - E	0	-1026	I - J	0	-2216
E - F	0	-1026	J - K	0	-2216
F - G	0	-2527			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	-944	P - O	1976	0
R - Q	0	-440	O - N	2573	0
Q - P	0	-440	N - M	1350	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1088	0	F - O	633	0
B - R	0	-1142	I - N	0	-408
R - D	0	-1649	N - K	988	0
D - P	1656	0	K - M	0	-1532
P - F	0	-1087			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -490# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

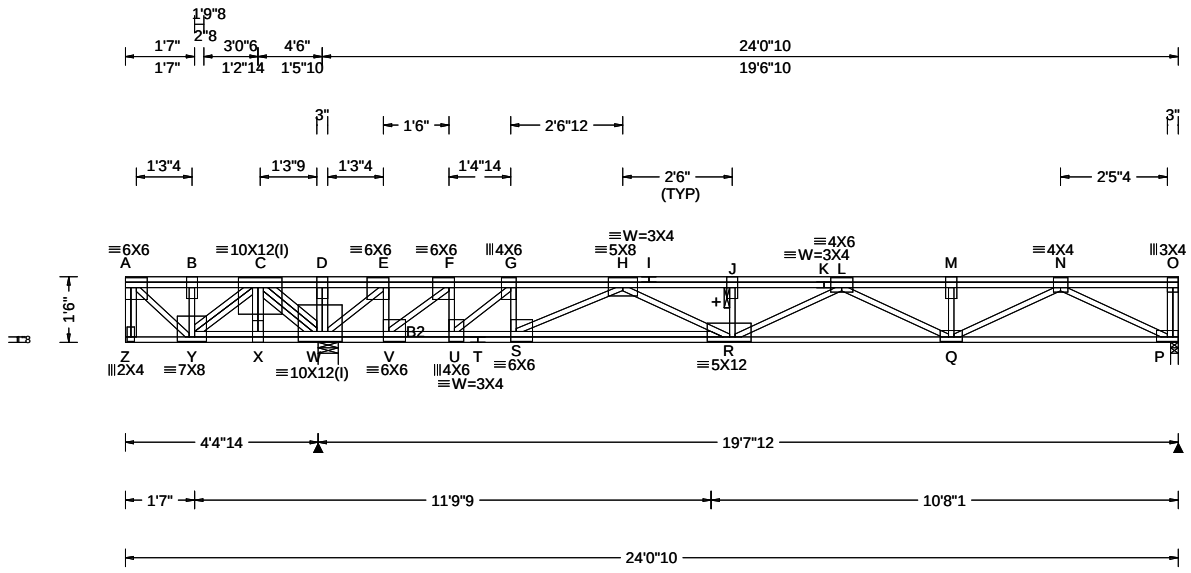
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 12940 / SY42 FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F28G	Cust: R 9316 JRef:1XdX93160010 T12 / DrwNo: 076.22.1326.04573 / NDW 03/17/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.120	A	443	480
VERT(CL): 0.268	Z	198	360
HORZ(LL): -0.025	A	-	-
HORZ(TL): 0.057	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.433
Max BC CSI: 0.260
Max Web CSI: 0.271

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	8750	/-	/-	/-	/-	/-
P	618	/-243	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	597	0	H - I	1855	- 383
B - C	597	0	I - J	1855	- 383
C - D	5342	0	J - K	1853	- 389
D - E	5337	0	K - L	1853	- 389
E - F	4767	0	L - M	685	- 689
F - G	4126	0	M - N	685	- 689
G - H	3551	0			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	- 1645	T - S	0	- 3597
X - W	0	- 1635	S - R	0	- 2646
W - V	0	- 4815	R - Q	647	- 1215
V - U	0	- 4178	Q - P	456	- 296
U - T	0	- 3597			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	- 789	G - S	577	0
Y - C	1366	0	S - H	0	- 1230
C - W	0	- 5021	H - R	961	0
W - E	0	- 1030	R - L	0	- 716
E - V	677	0	L - Q	599	0
V - F	0	- 1093	Q - N	264	- 439
F - U	694	0	N - P	330	- 495
U - G	0	- 980			

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.05
BC: From 13 plf at 0.00 to 13 plf at 24.05
TC: 1129 lb Conc. Load at 0.12
TC: 5500 lb Conc. Load at 3.03

Plating Notes

All plates are 3X6 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

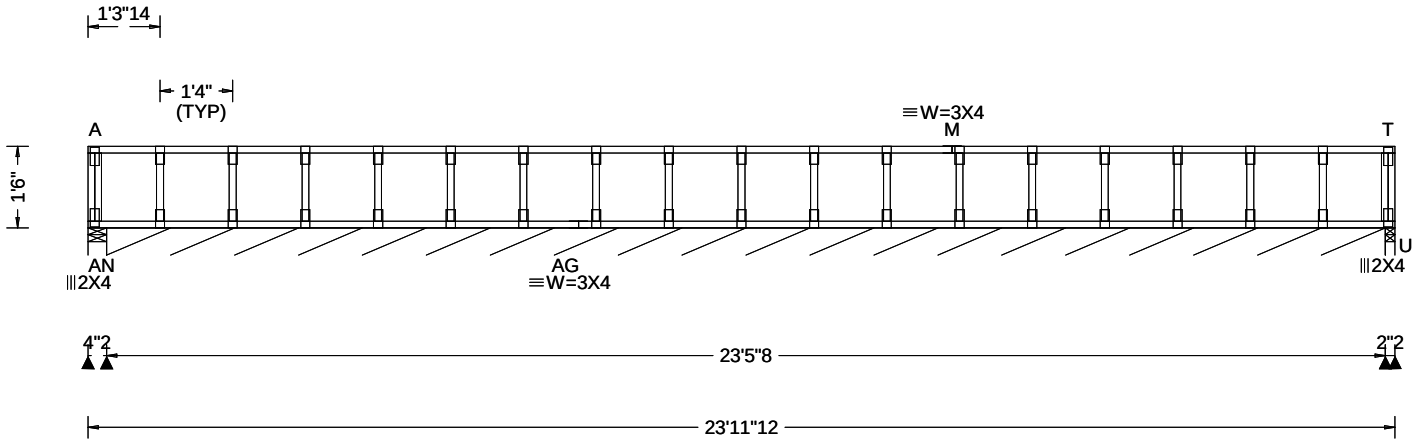
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12942 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L11	Cust: R 9316 JRef:1XdX93160010 T29 / DrwNo: 076.22.1326.05011 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	T	999	480
VERT(CL): 0.001	T	999	360
HORZ(LL): -0.003	B	-	-
HORZ(TL): 0.005	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.060
Max BC CSI: 0.013
Max Web CSI: 0.018

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AN	68 /-	/-	/-	/-	/-
AN*	97 /-	/-	/-	/-	/-
U	64 /-	/-	/-	/-	/-

AN Brg Wid = 4.1 Min Req = 1.5 (Truss)
AN Brg Wid = 281 Min Req = -
U Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AN, AN, & U are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

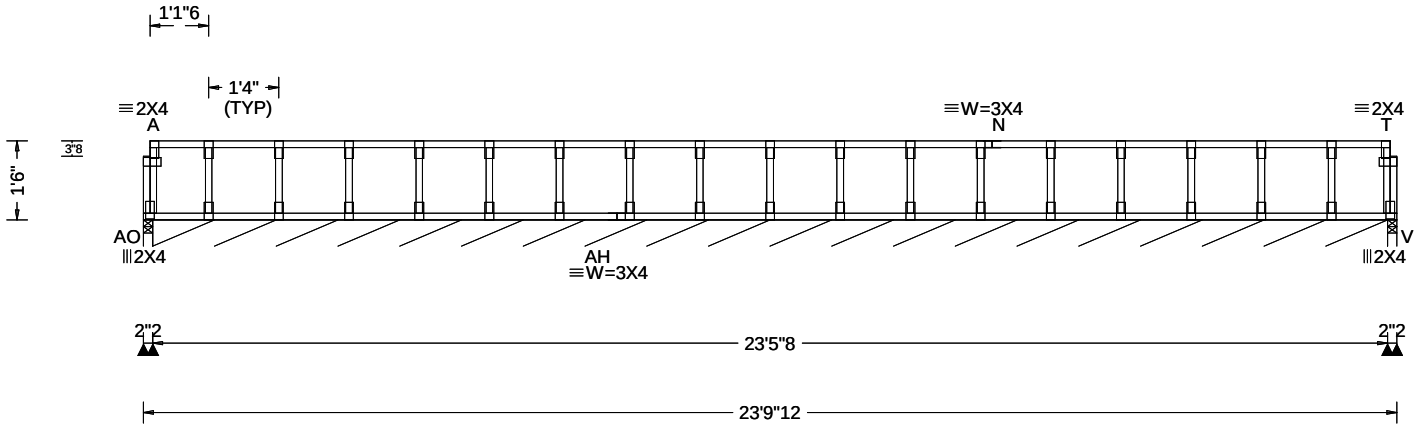
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12944 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L21	Cust: R 9316 JRef:1XdX93160010 T30 / DrwNo: 076.22.1326.05433 / NDW 03/17/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 T 999 480 VERT(CL): 0.000 T 999 360 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.057 Max BC CSI: 0.009 Max Web CSI: 0.018 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AO	48	/-	/-	/-	/-	/-
AO	*97	/-	/-	/-	/-	/-
V	48	/-	/-	/-	/-	/-

AO Brg Wid = 2.1 Min Req = 1.5 (Truss)
AO Brg Wid = 281 Min Req = -
V Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AO, AO, & V are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

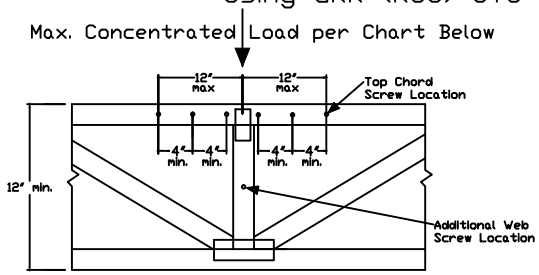
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

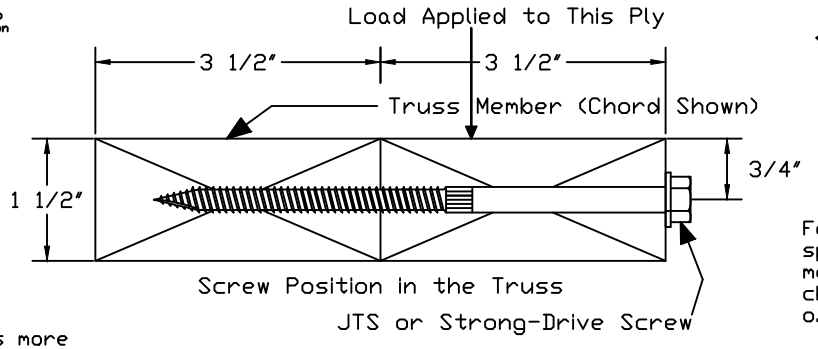
ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

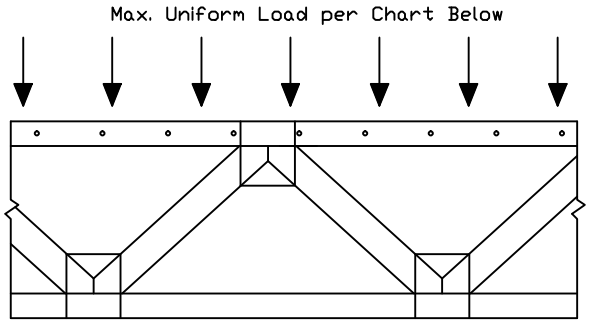
System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.



Refer to Alpine sealed drawing for individual truss design.





Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

TC LL		PSF
TC DL		PSF
BC DL		PSF
BC LL		PSF
TOT. LD.		PSF
DUR. FAC.	1.00	
SPACING		

REF	SY42 Connection
DATE	01/19/2018
DRWG	CNSY42PL0118

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

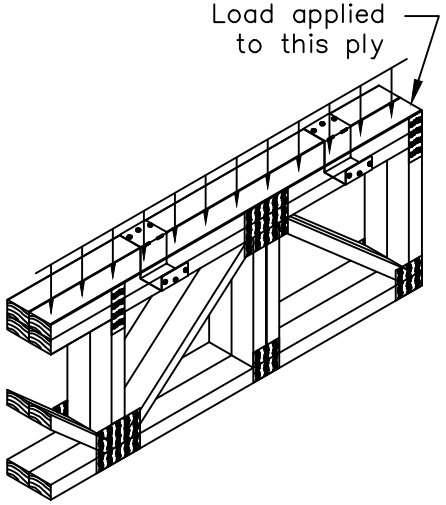
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL

FOR DOWNWARD LOADS ONLY

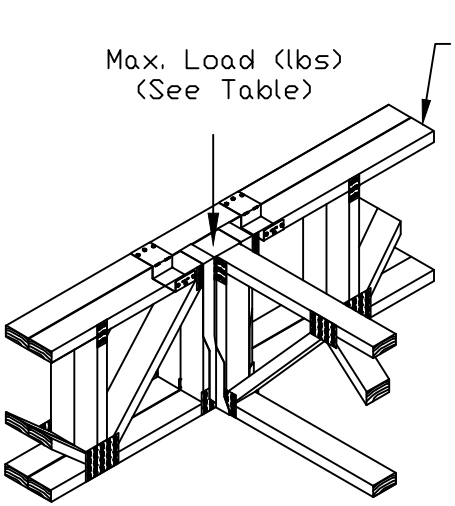
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application



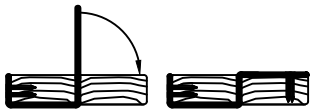
Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

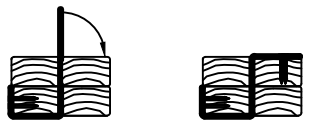
Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.

2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

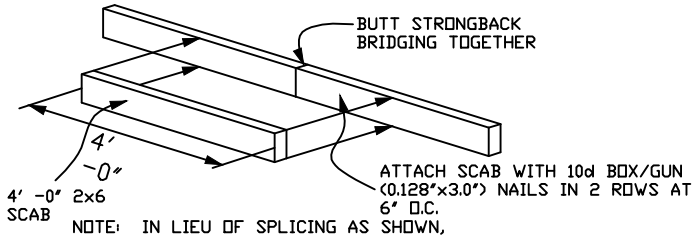
ALPINE® ITW COMPANY
[illegible] Earth City Expressway
[illegible], MO 63045

DUR. FAC. ALL

REF	SY42 Connection
DATE	10/01/14
DRWG	LSCSYX2A1014

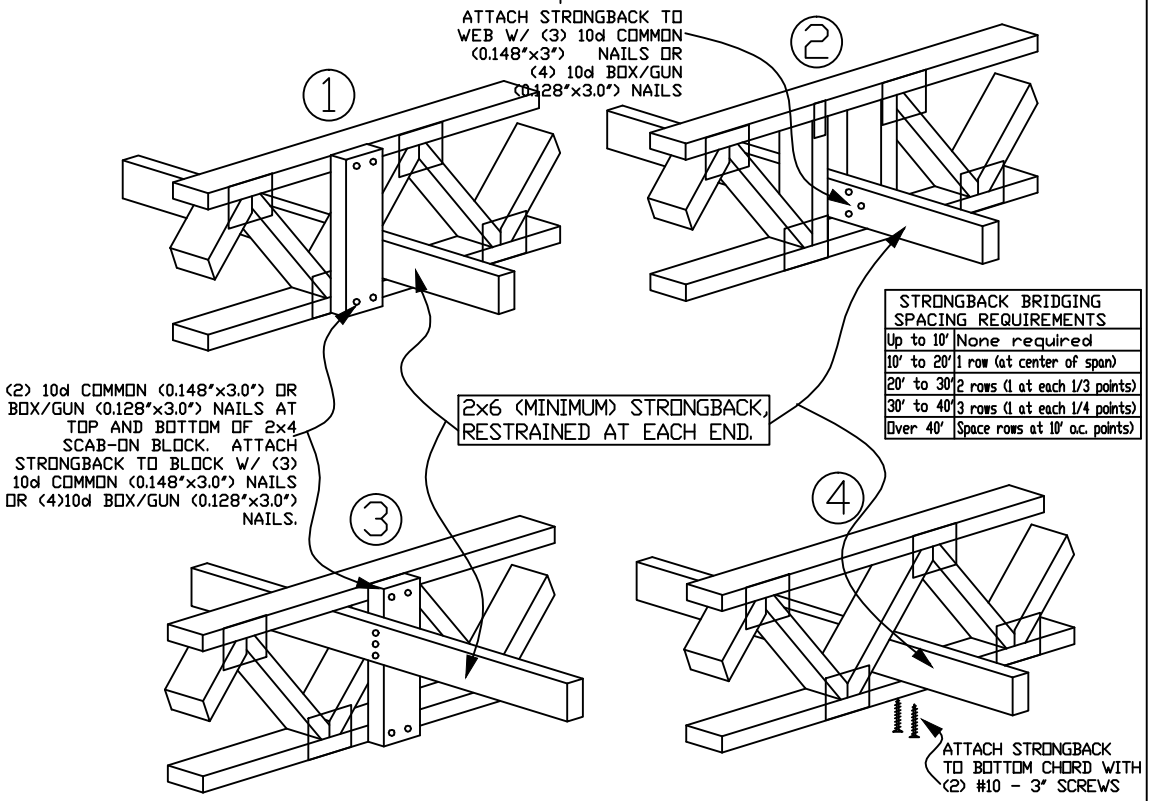
Building 12

STRONGBACK BRIDGING RECOMMENDATIONS



STRONGBACK BRIDGING SPLICE DETAIL

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING SPACING REQUIREMENTS	
Up to 10'	None required
10' to 20'	1 row (at center of span)
20' to 30'	2 rows (1 at each 1/3 points)
30' to 40'	3 rows (1 at each 1/4 points)
Over 40'	Space rows at 10' o.c. points)

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

- All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

ALPINE® ITW COMPANY

*****WARNING*** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
*****IMPORTANT*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineltw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

TC LL	PSF	REF STRONGBACK
TC DL	PSF	DATE 10/01/14
BC DL	PSF	DRWG STRBRIBR1014
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.	1.00	
SPACING		

Building 12

BOB D. CAMPBELL & CO., INC.

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 12 Truss	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Building 12

Group 12 Roof Layout

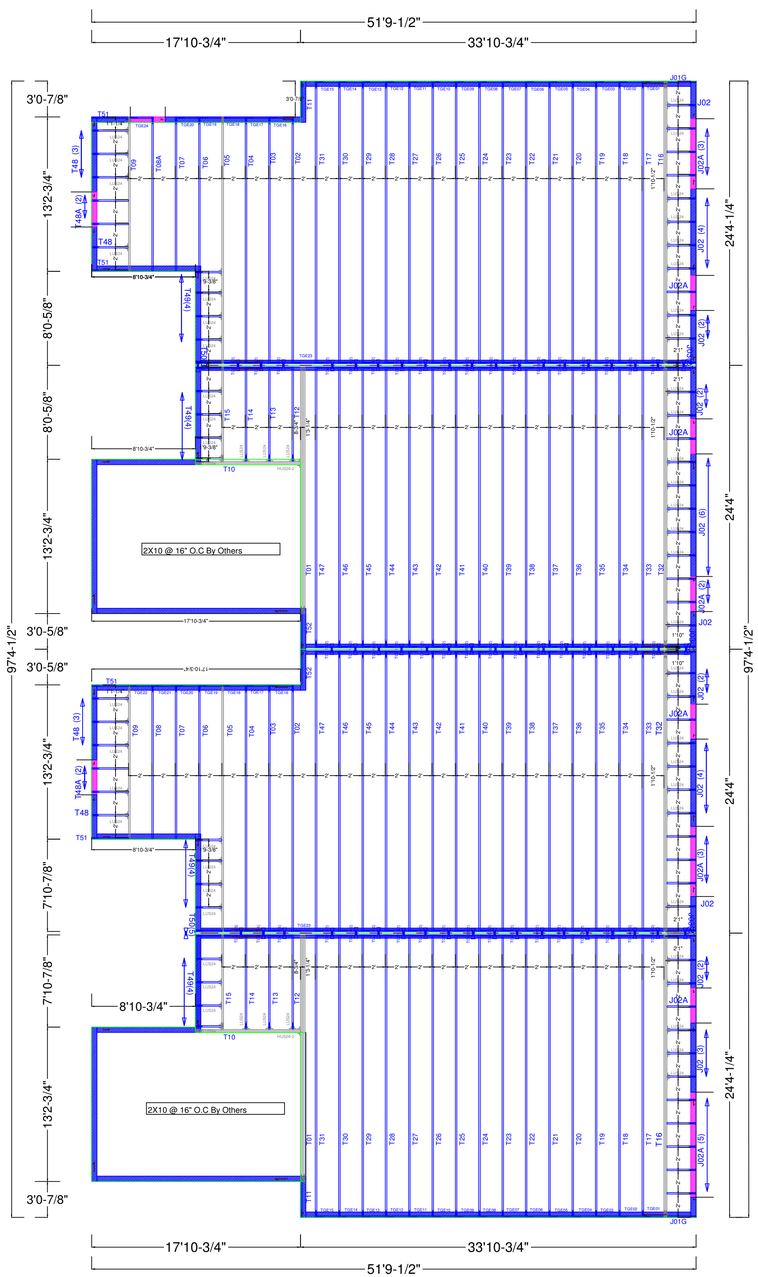
Total Truss Quantity = 349.

Total Plan Area with OHs = 4539 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
=	HUS26-2	2	Simpson
=	LUS24	78	Simpson

BEARING WALL & BEAM HEIGHTS
- 19'8"
- 19'9-3/4"



SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS.

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED; REVISE & RESUBMIT
- ☒ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE 05/30/2022 BY CB

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 6/6/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

Job Name: McCambridge Brothers Construction

Designer: Juan R Quiroz

Date: 5/20/2022

Reference #: JB-220696

mill Creek
3363 S. Halstead Rd.
Haskell, KS 74436
(316) 830-6108

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

ROOF TRUSS LAYOUT (NTS)

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

Building 12

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/20/2022

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 6/6/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED. REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 *BY:* CB

Site Information:	**Page 1:**
Customer: Mill Creek Truss	*Job Number:* JB-220696
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1XfP93160003
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 109 *Building Type:* Closed	*Design Loading (psf):* 65.00

This package contains general notes pages, 82 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	140.22.1622.47732	J01G	2	140.22.1622.47887	J02
3	140.22.1622.47684	J03	4	140.22.1622.48219	T01
5	140.22.1622.47988	T02	6	140.22.1622.46320	T03
7	140.22.1622.46043	T04	8	140.22.1622.45698	T05
9	140.22.1622.48054	T06	10	140.22.1622.48104	T07
11	140.22.1622.47461	T08	12	140.22.1622.48098	T10
13	140.22.1622.45492	T11	14	140.22.1622.46877	T12
15	140.22.1622.47100	T13	16	140.22.1622.48145	T14
17	140.22.1622.46728	T15	18	140.22.1624.26180	T17
19	140.22.1624.43947	T18	20	140.22.1622.47553	T19
21	140.22.1622.45482	T20	22	140.22.1622.47269	T21
23	140.22.1624.55133	T22	24	140.22.1622.47795	T23
25	140.22.1622.48057	T24	26	140.22.1622.46426	T25
27	140.22.1622.46509	T26	28	140.22.1622.45991	T27
29	140.22.1622.47535	T28	30	140.22.1622.47313	T29
31	140.22.1622.45544	T30	32	140.22.1622.46164	T31
33	140.22.1622.46621	T33	34	140.22.1622.47864	T34
35	140.22.1622.45699	T35	36	140.22.1622.47147	T36
37	140.22.1622.47315	T37	38	140.22.1622.47669	T38
39	140.22.1622.47750	T39	40	140.22.1622.46032	T40
41	140.22.1622.47363	T41	42	140.22.1622.48020	T42
43	140.22.1622.46104	T43	44	140.22.1622.48287	T44
45	140.22.1622.47985	T45	46	140.22.1622.47804	T46
47	140.22.1622.45495	T47	48	140.22.1622.48251	T48
49	140.22.1622.46305	T49	50	140.22.1622.45200	T50

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/20/2022

Site Information:	**Page 2:**
Customer: Mill Creek Truss	*Job Number:* JB-220696
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	140.22.1622.47159	T51
53	140.22.1622.44943	TGE01
55	140.22.1622.44899	TGE03
57	140.22.1622.44011	TGE05
59	140.22.1622.43756	TGE07
61	140.22.1622.44721	TGE09
63	140.22.1622.44541	TGE11
65	140.22.1622.43759	TGE13
67	140.22.1622.44540	TGE15
69	140.22.1622.44261	TGE17
71	140.22.1622.47228	TGE19
73	140.22.1622.47479	TGE21
75	140.22.1622.43770	TGE23
77	140.22.1625.02503	T16
79	140.22.1625.06490	T48A
81	140.22.1622.47570	TGE24
83	A11530ENC160118	
85	DEFLCAMB1014	
87	GBLLETIN0118	

Item	Drawing Number	Truss
52	140.22.1622.47604	T52
54	140.22.1622.44668	TGE02
56	140.22.1622.45090	TGE04
58	140.22.1622.43760	TGE06
60	140.22.1622.45195	TGE08
62	140.22.1622.44589	TGE10
64	140.22.1622.43815	TGE12
66	140.22.1622.44232	TGE14
68	140.22.1622.44390	TGE16
70	140.22.1622.43926	TGE18
72	140.22.1622.48204	TGE20
74	140.22.1622.47480	TGE22
76	140.22.1624.57520	T09
78	140.22.1625.04457	T32
80	140.22.1622.46957	J02A
82	140.22.1625.39033	T08A
84	BRCLBSUB0119	
86	GABRST160118	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

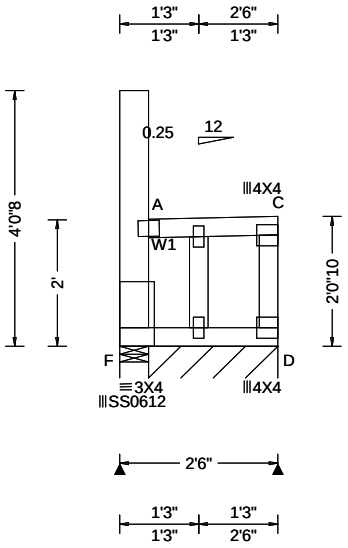
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 12

SEQN: 37157 / GABL FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J01G	Cust: R 9316 JRef:1XfP93160003 T208 DrwNo: 140.22.1622.47732 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
18SS, WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	A	999	360
VERT(CL): 0.007	A	999	240
HORZ(LL): 0.092	A	-	-
HORZ(TL): 0.105	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.129
Max BC CSI: 0.373
Max Web CSI: 0.164

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	47	/-	/-	/124	/146	/99
D*	134	/-	/-	/130	/58	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 24.5 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

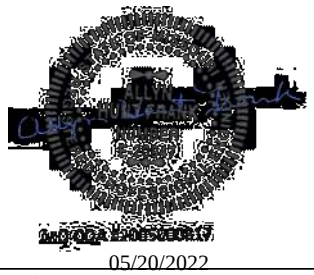
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.



05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

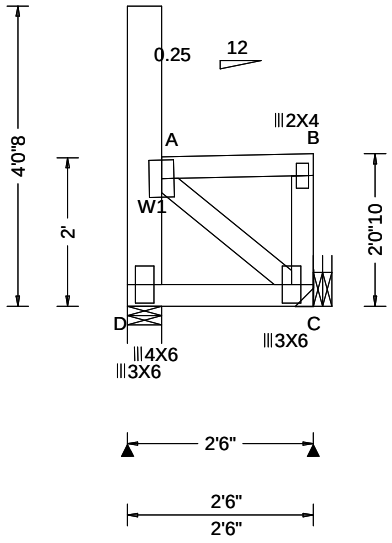
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 37158 / MONO FROM:	Ply: 1 Qty: 27	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02	Cust: R 9316 JRef:1XfP93160003 T218 DrwNo: 140.22.1622.47887 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.103
Max BC CSI: 0.079
Max Web CSI: 0.131

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	147	/-	/-	/114	/80	/91
C	173	/-	/-	/158	/64	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
A - C	240	-390

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

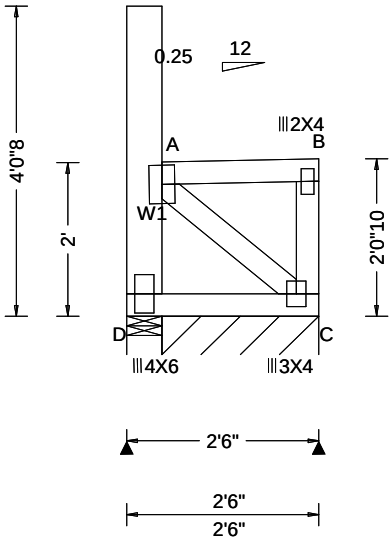
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37160 / MONO FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J03	Cust: R 9316 JRef:1XfP93160003 T135 DrwNo: 140.22.1622.47684 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 B	999	360
VERT(CL):	0.000 B	999	240
HORZ(LL):	0.001 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.103
Max BC CSI: 0.079
Max Web CSI: 0.106

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	147	/-	/-	/123	/86	/99
C*	85	/-	/-	/78	/34	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = 24.5 Min Req = -
Bearings D & D are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

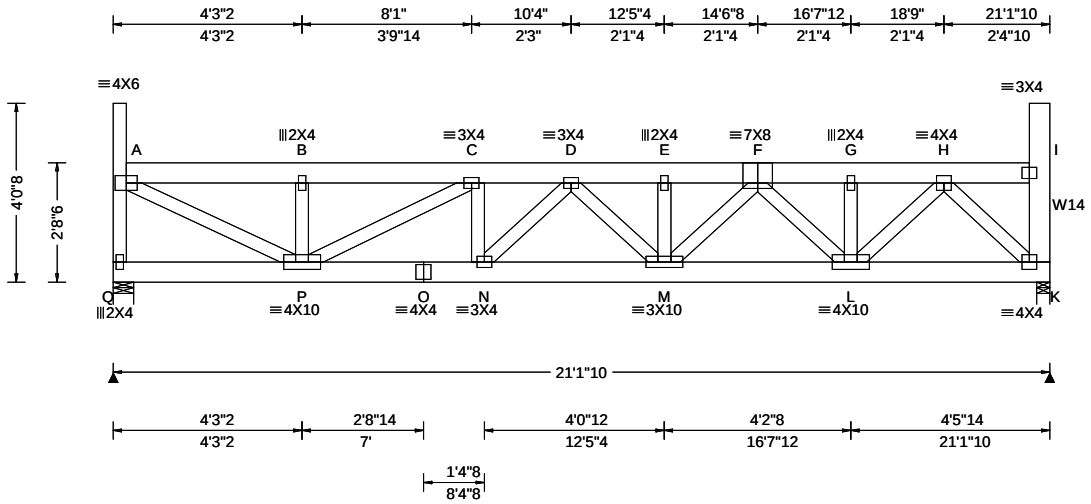
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37240 / FLAT FROM:	Ply: 3 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T01	Cust: R 9316 JRef:1XfP93160003 T2 / DrwNo: 140.22.1622.48219 / NDW 05/20/2022

3 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.060	D	999	360
VERT(CL): 0.111	D	999	240
HORZ(LL): 0.014	K	-	-
HORZ(TL): 0.026	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.054
Max BC CSI: 0.283
Max Web CSI: 0.291

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	1981	/-	/-	/-	/125	/-
K	2325	/-	/-	/-	/158	/-

Wind reactions based on MWFRS
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
K Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings Q & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	72	- 1106	E - F	163	- 2215
B - C	72	- 1102	F - G	98	- 1390
C - D	123	- 1792	G - H	98	- 1390
D - E	163	- 2215			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	1751	- 119	M - L	1836	- 133
O - N	1751	- 119	L - K	768	- 54
N - M	2024	- 144			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - A	40	- 620	F - L	50	- 652
A - P	1188	- 77	L - H	908	- 65
P - C	55	- 752	H - K	74	- 1041
M - F	554	- 44			

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 9.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	70 plf at	0.29 to	70 plf at	20.68
BC: From	60 plf at	0.00 to	60 plf at	21.14

BC: 1611 lb Conc. Load at 12.90

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.39	1.34	13.80	3.32
20.68	0.00	20.39	1.34	13.80	3.32

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

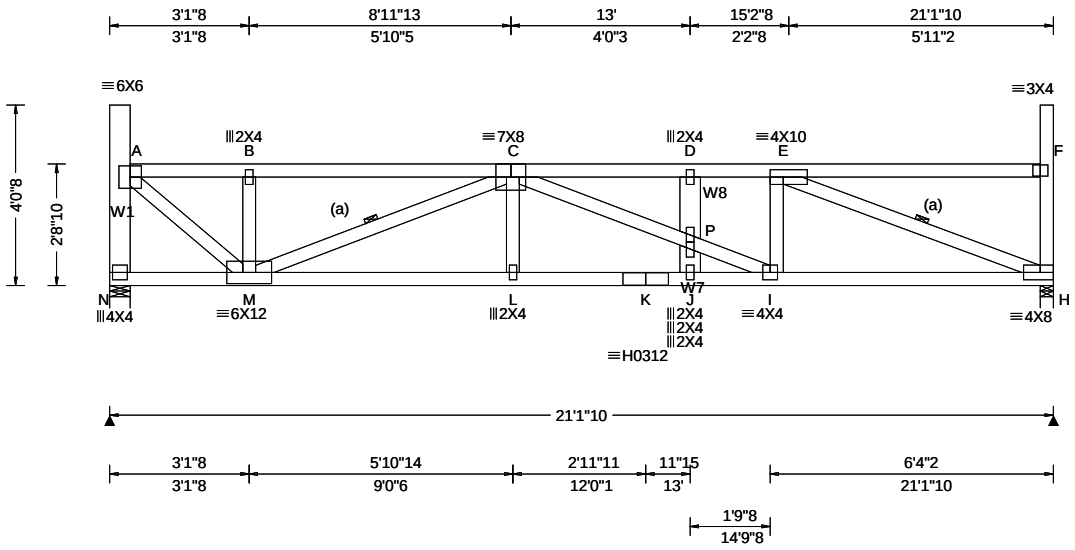
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37161 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T02	Cust: R 9316 JRef:1XfP93160003 T165 DrwNo: 140.22.1622.47988 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.138	D	999	360
VERT(CL): 0.256	D	990	240
HORZ(LL): 0.036	H	-	-
HORZ(TL): 0.066	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.439
Max BC CSI: 0.523
Max Web CSI: 0.606

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1340	/-	/-	/640	/77	/121
H	1352	/-	/-	/645	/79	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.9 (Truss)
H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	137	- 1624	C - D	147	- 2651
B - C	136	- 1621	D - E	147	- 2651

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	3043	- 237	J - I	3043	- 237
L - K	3043	- 237	I - H	2579	- 164
K - J	3043	- 237			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	81	- 1286	P - I	95	- 436
A - M	1934	- 123	I - E	605	- 3
M - C	127	- 1537	E - H	176	- 2736
C - P	94	- 420			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.32	13.12	3.16
20.84	0.00	20.39	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

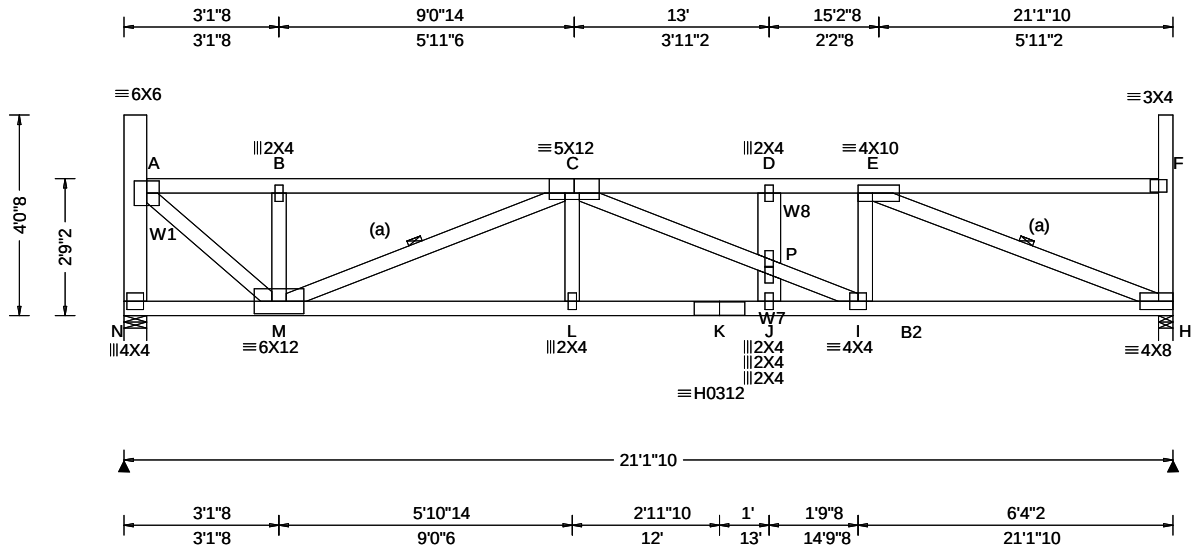
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37162 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T03	Cust: R 9316 JRef:1XfP93160003 T168 DrwNo: 140.22.1622.46320 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.142	D	999	360
VERT(CL): 0.265	D	957	240
HORZ(LL): 0.040	H	-	-
HORZ(TL): 0.075	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.440
Max BC CSI: 0.996
Max Web CSI: 0.600

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1342	/-	/-	/640	/78	/120
H	1353	/-	/-	/644	/80	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 2.1 (Truss)
H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	135	- 1601	C - D	146	- 2612
B - C	135	- 1598	D - E	146	- 2612

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2997	- 236	J - I	2997	- 236
L - K	2997	- 236	I - H	2541	- 163
K - J	2997	- 236			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	82	- 1290	P - I	93	- 431
A - M	1919	- 123	I - E	605	- 3
M - C	126	- 1516	E - H	174	- 2703
C - P	92	- 413			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.28	11.74	2.83
20.84	0.00	20.39	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

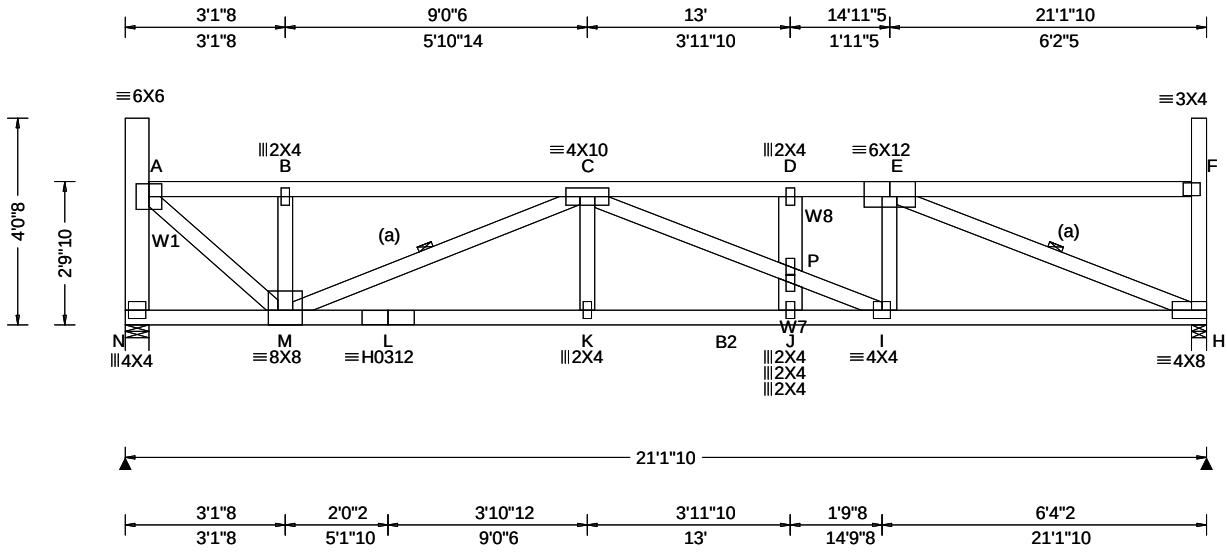
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37163 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T04	Cust: R 9316 JRef:1XfP93160003 T134 DrwNo: 140.22.1622.46043 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.132	D	999	360
VERT(CL): 0.236	D	999	240
HORZ(LL): 0.036	H	-	-
HORZ(TL): 0.067	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.440
Max BC CSI: 0.919
Max Web CSI: 0.592

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1342	/-	/-	/639	/78	/119
H	1353	/-	/-	/644	/80	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 2.1 (Truss)
H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	133	- 1571	C - D	168	- 2565
B - C	132	- 1567	D - E	168	- 2565

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2953	- 233	J - I	2953	- 233
L - K	2953	- 233	I - H	2494	- 161
K - J	2953	- 233			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	83	- 1287	P - I	92	- 685
A - M	1894	- 121	I - E	611	- 3
M - C	124	- 1506	E - H	171	- 2659
C - P	91	- 659			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.24	10.35	2.50
20.84	0.00	20.39	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

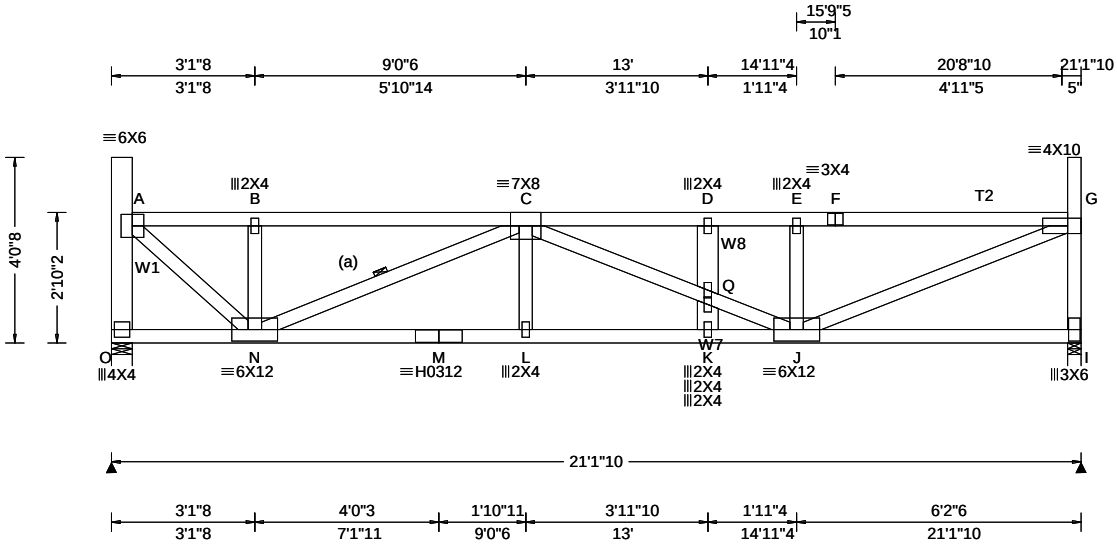
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37232 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T05	Cust: R 9316 JRef:1XfP93160003 T167 DrwNo: 140.22.1622.45698 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.153	D	999	360
VERT(CL): 0.283	D	895	240
HORZ(LL): 0.034	A	-	-
HORZ(TL): 0.063	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.626
Max BC CSI: 0.730
Max Web CSI: 0.771

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	1435	/-	/-	/-	/121	/-
I	1602	/-	/-	/-	/245	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 2.1 (Truss)
I Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	144	- 1659	D - E	444	- 3020
B - C	144	- 1656	E - F	444	- 3017
C - D	444	- 3020	F - G	444	- 3025

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	3240	- 340	L - K	3240	- 340
M - L	3240	- 340	K - J	3240	- 340

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	119	- 1381	Q - J	0	- 448
A - N	2014	- 175	J - G	3143	- 461
N - C	214	- 1726	G - I	193	- 1404
C - Q	0	- 432			

Lumber
Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 20.84
BC: From 60 plf at 0.00 to 60 plf at 13.29
BC: From 30 plf at 13.29 to 30 plf at 21.14
BC: 144 lb Conc. Load at 13.29,15.07,17.07,19.07

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.20	8.97	2.16
20.84	0.00	20.39	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

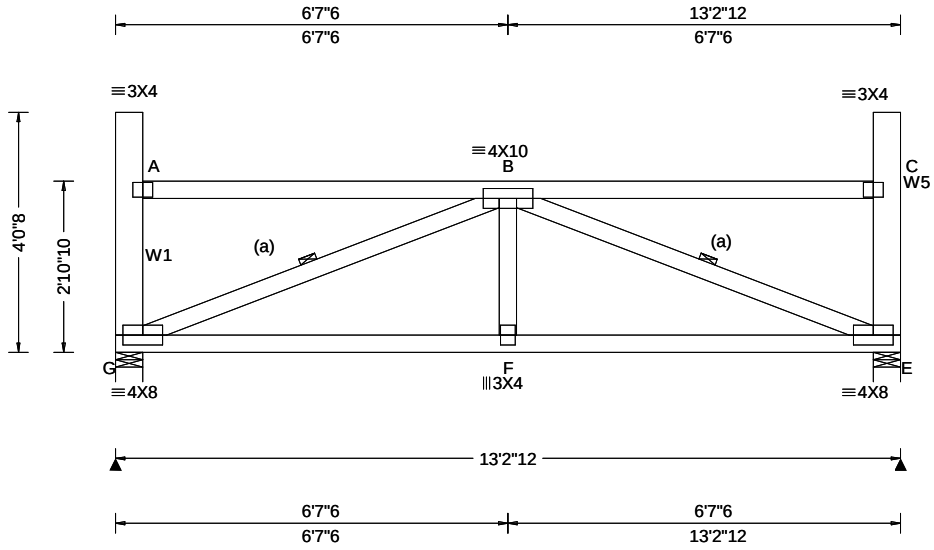
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37164 / SPEC FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T06	Cust: R 9316 JRef:1XfP93160003 T149 DrwNo: 140.22.1622.48054 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.043	F	999	360
VERT(CL): 0.080	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.028	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.546
Max BC CSI: 0.744
Max Web CSI: 0.315

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	828	/-	/-	/408	/59	/116
E	828	/-	/-	/408	/59	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1311	- 166	F - E	1311	- 166

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	179	- 1334	B - E	176	- 1334
B - F	440	0			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.59	1.83
12.77	0.00	20.00	1.16	7.59	1.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

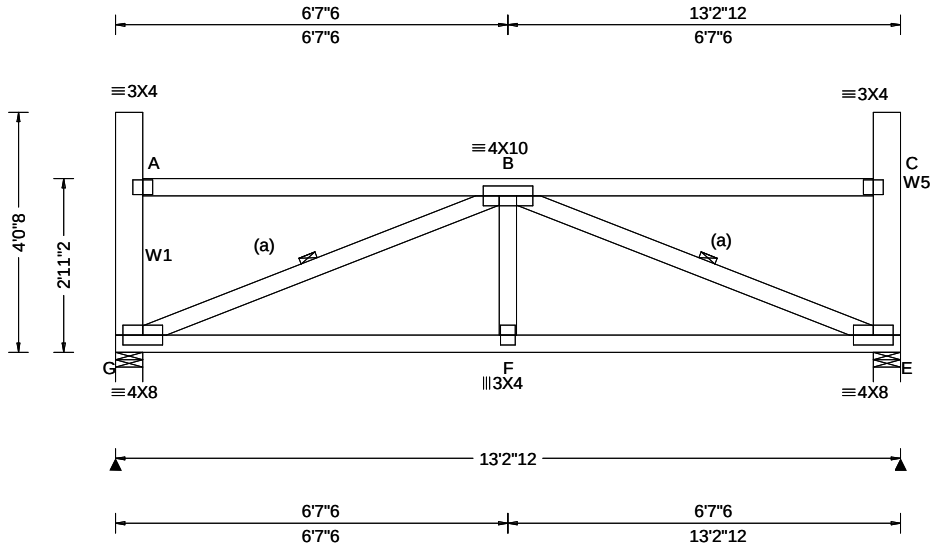
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37165 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T07	Cust: R 9316 JRef:1XfP93160003 T146 DrwNo: 140.22.1622.48104 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.042	F	999	360
VERT(CL): 0.078	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.028	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.547
Max BC CSI: 0.741
Max Web CSI: 0.312

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	828	/-	/-	/407	/59	/115
E	828	/-	/-	/407	/59	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1291	- 164	F - E	1291	- 164

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	175	- 1316	B - E	173	- 1316
B - F	440	0			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.11	6.20	1.50
12.77	0.00	20.00	1.11	6.20	1.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

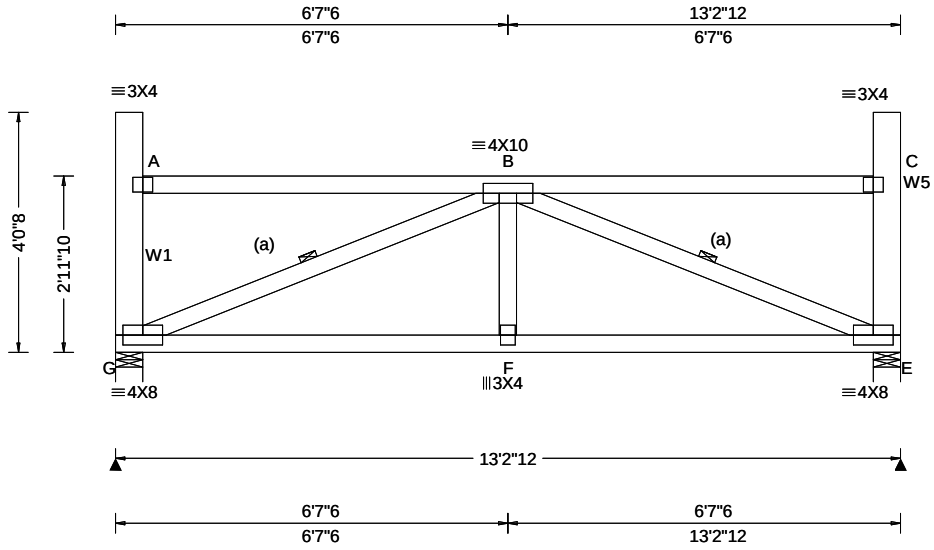
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37166 / FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T08	Cust: R 9316 JRef:1XfP93160003 T150 DrwNo: 140.22.1622.47461 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.041	F	999	360
VERT(CL): 0.076	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.027	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.548
Max BC CSI: 0.738
Max Web CSI: 0.309

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	828	/-	/-	/407	/59	/114
E	828	/-	/-	/407	/59	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1271	- 162	F - E	1271	- 162

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	171	- 1299	B - E	169	- 1299
B - F	441	0			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

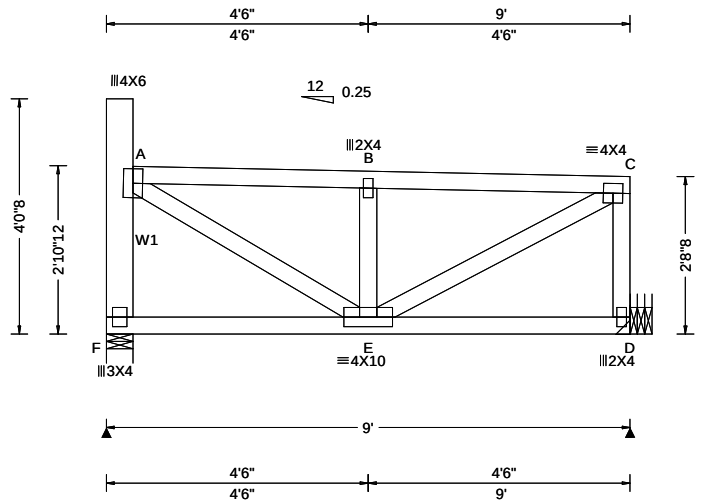
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 37239 / MONO FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T10	Cust: R 9316 JRef:1XfP93160003 T1 / DrwNo: 140.22.1622.48098 / NDW 05/20/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.46 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.015	B	999	360
VERT(CL): 0.029	B	999	240
HORZ(LL): 0.004	A	-	-
HORZ(TL): 0.007	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.128
Max BC CSI: 0.459
Max Web CSI: 0.235

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	1371	/-	/-	/-	/183	/-
D	1611	/-	/-	/-	/155	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = - Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	100	- 859	B - C	100	- 860

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
F - A	54	- 490	E - C	959	- 112
A - E	909	- 102	C - D	58	- 507

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 3.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 35 plf at 0.46 to 35 plf at 9.00
BC: From 60 plf at 0.00 to 60 plf at 2.33
BC: From 30 plf at 2.33 to 30 plf at 9.00
BC: 762 lb Conc. Load at 2.33
BC: 527 lb Conc. Load at 4.33, 6.33, 8.33

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.84

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

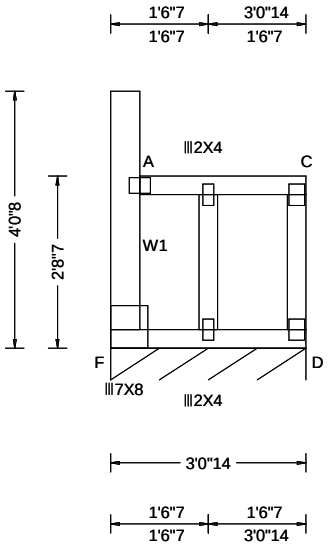
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 37168 / GABL FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T11	Cust: R 9316 JRef:1XfP93160003 T187 DrwNo: 140.22.1622.45492 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	A	999	360
VERT(CL): 0.009	A	999	240
HORZ(LL): 0.117	A	-	-
HORZ(TL): 0.136	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.116
Max BC CSI: 0.326
Max Web CSI: 0.142

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	120	/-	/-	/56	/5	/30

Wind reactions based on MWFRS
D Brg Wid = 36.9 Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.34	13.63	2.61

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

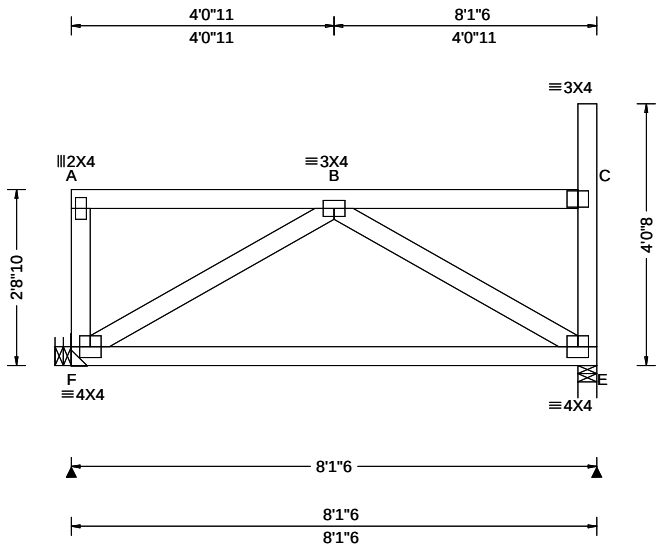
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37169 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T12	Cust: R 9316 JRef:1XfP93160003 T110 DrwNo: 140.22.1622.46877 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.217
Max BC CSI: 0.611
Max Web CSI: 0.204

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/46	/93
E	507	/-	/-	/255	/47	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

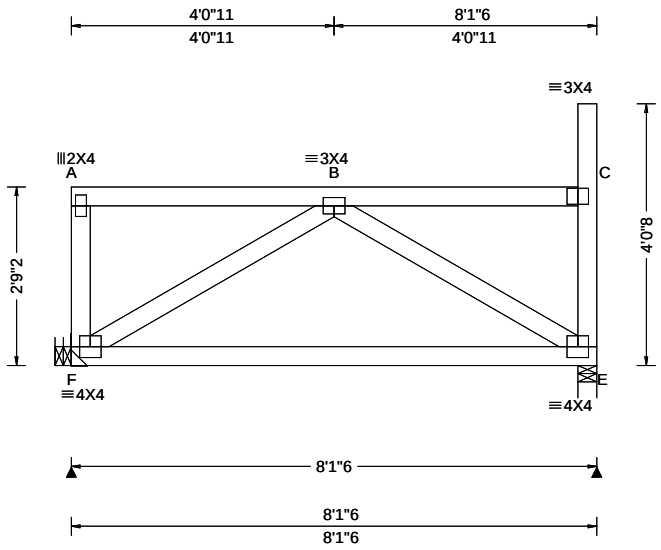
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37170 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T13	Cust: R 9316 JRef:1XfP93160003 T229 DrwNo: 140.22.1622.47100 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.217
Max BC CSI: 0.611
Max Web CSI: 0.204

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/46	/92
E	507	/-	/-	/255	/47	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

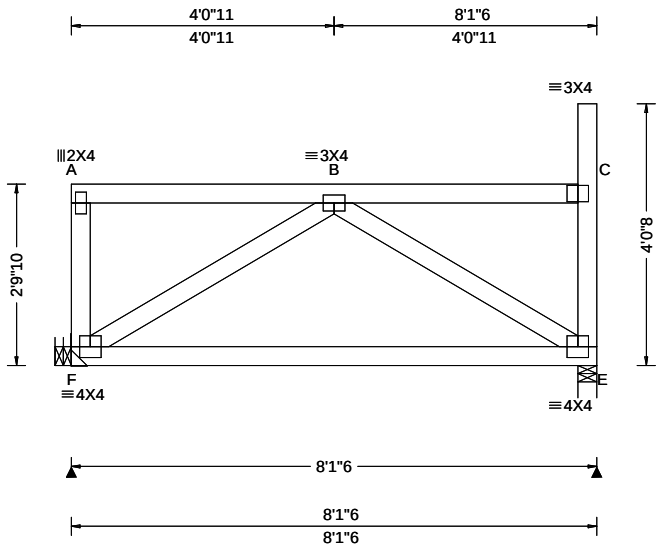
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37171 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T14	Cust: R 9316 JRef:1XfP93160003 T206 DrwNo: 140.22.1622.48145 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.007	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.218
Max BC CSI: 0.610
Max Web CSI: 0.203

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/46	/92
E	507	/-	/-	/255	/47	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

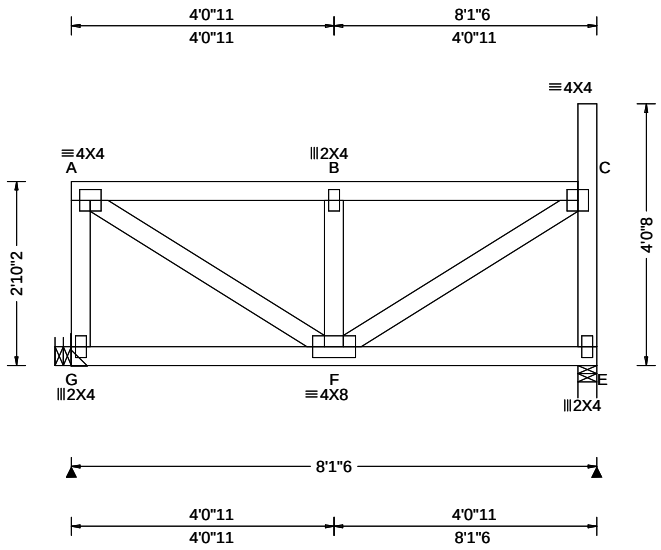
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37234 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T15	Cust: R 9316 JRef:1XfP93160003 T212 DrwNo: 140.22.1622.46728 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.012	B	999	360
VERT(CL): 0.021	B	999	240
HORZ(LL): -0.002	C	-	-
HORZ(TL): 0.004	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.239
Max BC CSI: 0.340
Max Web CSI: 0.190

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
G	762 /-	/-	/-	/172	/-
E	607 /-	/-	/-	/114	/-

Wind reactions based on MWFRS
G Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	138	-667	B - C	138	-671

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	94	-528	F - C	745	-155
A - F	773	-160	C - E	93	-510

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 7.82
BC: From 30 plf at 0.00 to 30 plf at 8.11
BC: 144 lb Conc. Load at 0.27, 2.05, 4.05, 6.05

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

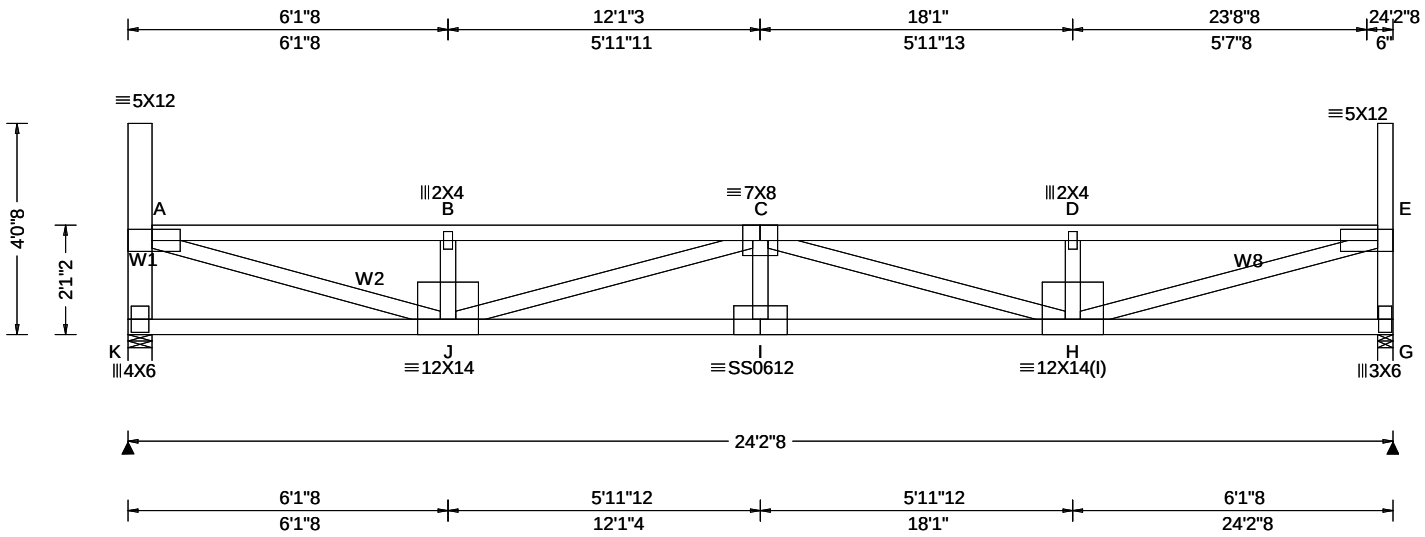
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37172 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T17	Cust: R 9316 JRef:1XfP93160003 T175 DrwNo: 140.22.1624.26180 / PPH 05/20/2022



Loading Criteria (psf)

TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria

Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.389	I	746	360
VERT(CL): 0.723	I	401	240
HORZ(LL): 0.061	A	-	-
HORZ(TL): 0.113	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.955
Max BC CSI: 0.730
Max Web CSI: 0.868

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
K	1541	/-	/-		/733	/84	/139
G	1553	/-	/-		/738	/86	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	258	- 4188	C - D	257	- 4194
B - C	257	- 4183	D - E	258	- 4199

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5416	- 324	I - H	5416	- 324

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	98	- 1371	C - H	138	- 1276
A - J	4154	- 260	H - E	4238	- 260
J - C	142	- 1288	E - G	100	- 1391

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E; W2, W8 2x4 SPF 2100f-1.8E;

Plating Notes

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.95	33.87	4.20
23.92	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.39" DL: 0.33". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

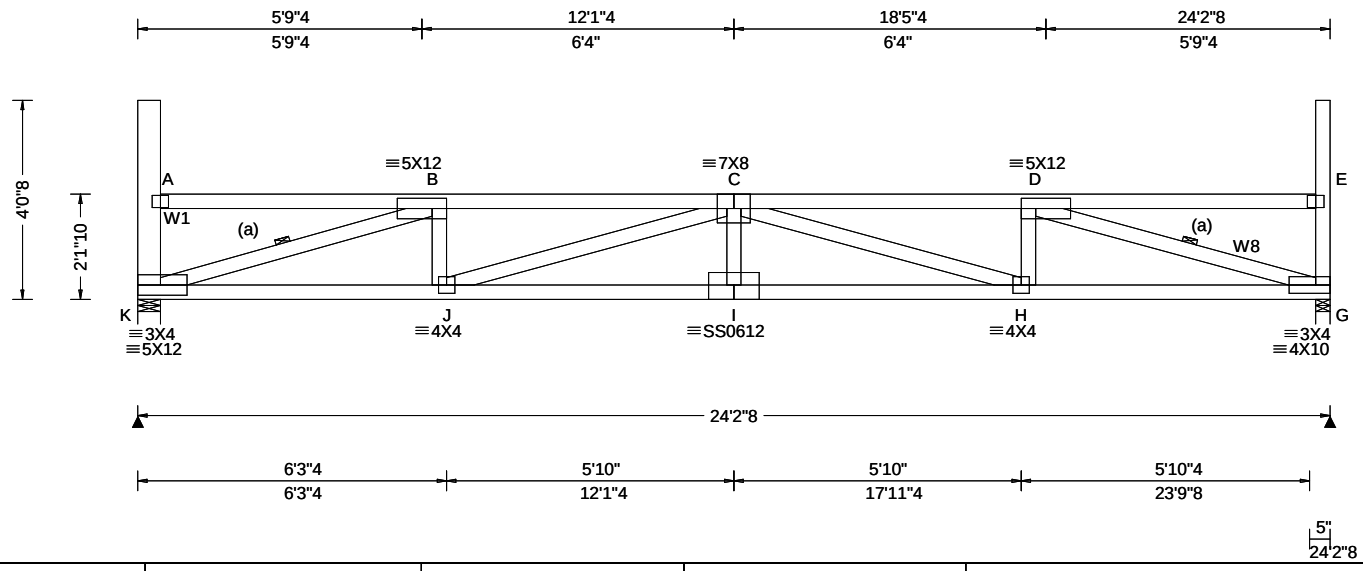
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37243 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T18	Cust: R 9316 JRef:1XfP93160003 T180 DrwNo: 140.22.1624.43947 / PPH 05/20/2022	



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.383	I	758	360
VERT(CL): 0.694	I	418	240
HORZ(LL): 0.081	G	-	-
HORZ(TL): 0.147	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.775
Max BC CSI: 0.722
Max Web CSI: 0.864

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1588	/-	/-	/733	/85	/138
G	1600	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	249	- 4243	C - D	249	- 4263

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4122	- 361	I - H	5460	- 321
J - I	5460	- 321	H - G	4140	- 216

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	252	- 4207	C - H	139	- 1256
B - J	771	- 2	H - D	786	- 1
J - C	141	- 1277	D - G	250	- 4277

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;
W8 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.91	32.49	4.38
23.92	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.31". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

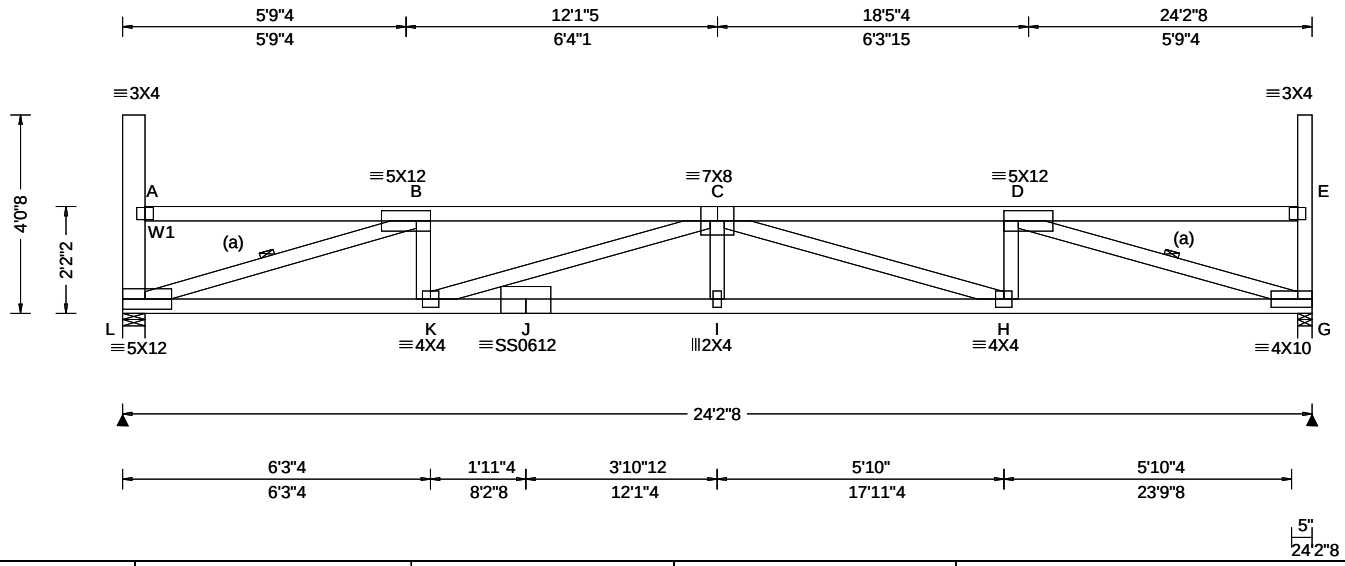
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37174 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T19	Cust: R 9316 JRef:1XfP93160003 T171 DrwNo: 140.22.1622.47553 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.356 I	817	360
VERT(CL):	0.661 I	439	240
HORZ(LL):	0.075 G	-	-
HORZ(TL):	0.139 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.703
Max BC CSI: 0.691
Max Web CSI: 0.853

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/85	/136
G	1553	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	244	- 4029	C - D	244	- 4040

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3913	- 354	I - H	5185	- 316
K - J	5185	- 316	H - G	3922	- 213
J - I	5185	- 316			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	247	- 4002	C - H	136	- 1204
B - K	760	- 2	H - D	774	- 1
K - C	137	- 1216	D - G	244	- 4056

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

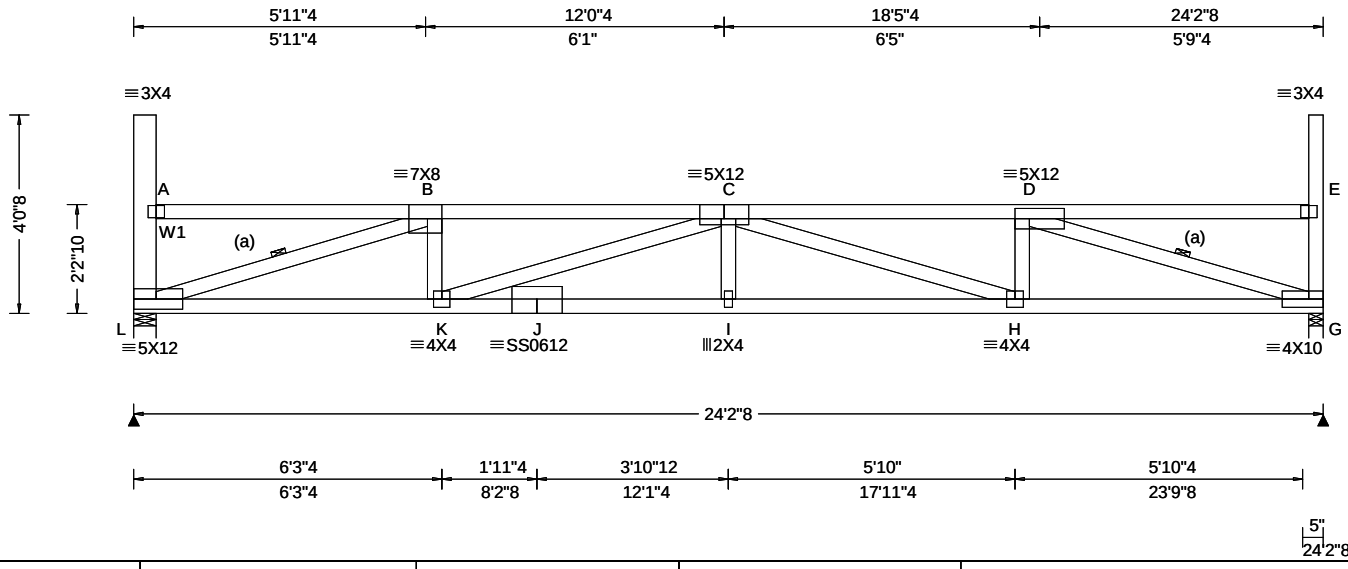
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37175 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T20	Cust: R 9316 JRef:1XfP93160003 T179 DrwNo: 140.22.1622.45482 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.89 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.341 I	851	360
VERT(CL):	0.634 I	457	240
HORZ(LL):	0.073 G	-	-
HORZ(TL):	0.137 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.680
Max BC CSI: 0.681
Max Web CSI: 0.839

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/85	/135
G	1553	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	240	- 3945	C - D	240	- 3955

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3831	- 349	I - H	5076	- 311
K - J	5076	- 311	H - G	3840	- 211
J - I	5076	- 311			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	243	- 3927	C - H	133	- 1180
B - K	760	- 2	H - D	774	- 1
K - C	134	- 1191	D - G	240	- 3980

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.82	29.72	4.79
23.92	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

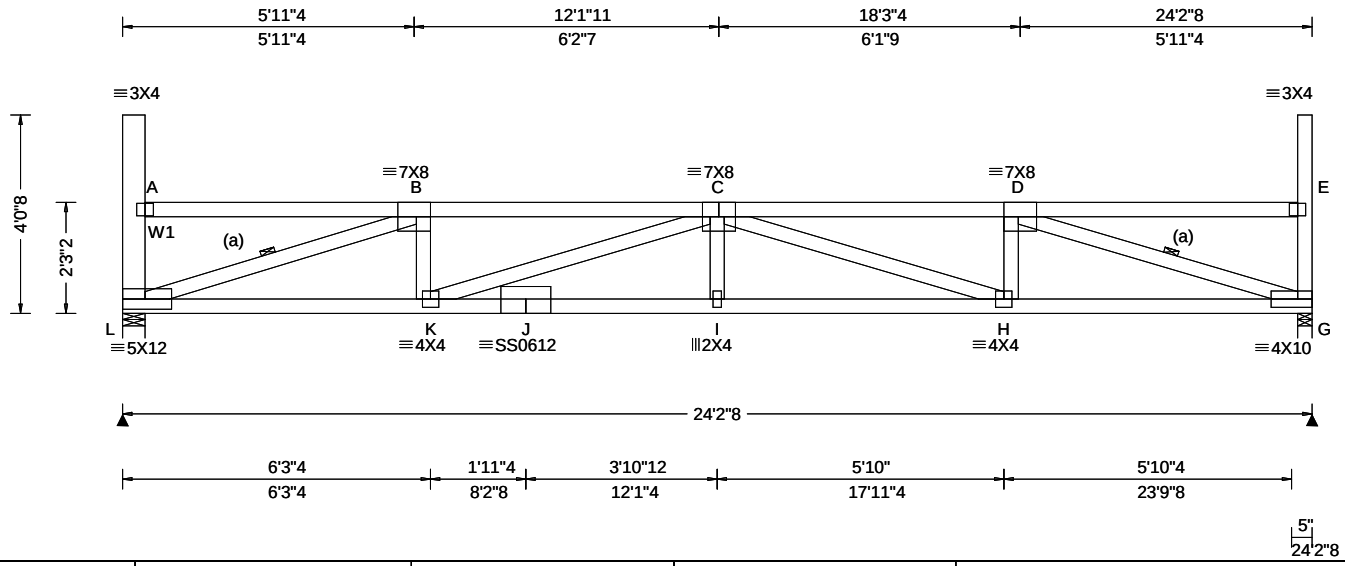
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37176 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T21	Cust: R 9316 JRef:1XfP93160003 T183 DrwNo: 140.22.1622.47269 / PPH 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.93 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.327	I	887	360
VERT(CL): 0.608	I	477	240
HORZ(LL): 0.072	G	-	-
HORZ(TL): 0.134	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.656
Max BC CSI: 0.671
Max Web CSI: 0.824

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1540	/-	/-	/732	/85	/134
G	1552	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	211	-3859	C - D	211	-3870

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3748	-342	I - H	4963	-304
K - J	4963	-304	H - G	3757	-207
J - I	4963	-304			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	238	-3851	C - H	129	-1153
B - K	759	-1	H - D	773	0
K - C	130	-1164	D - G	235	-3902

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

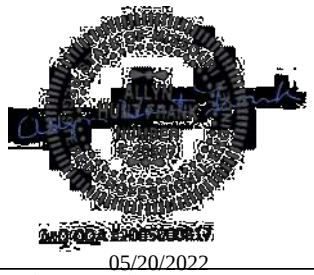
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

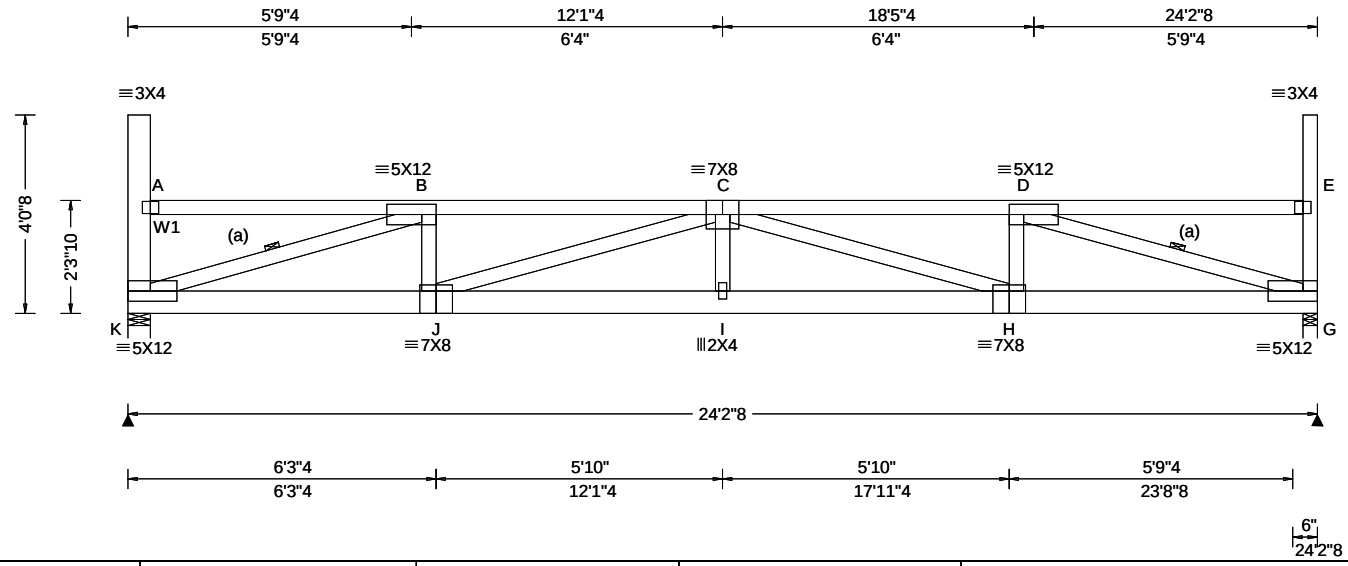
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37253 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T22	Cust: R 9316 JRef:1XfP93160003 T174 DrwNo: 140.22.1624.55133 / PPH 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.97 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.289 I	999	360
VERT(CL):	0.524 I	554	240
HORZ(LL):	0.049 G	-	-
HORZ(TL):	0.089 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.676
Max BC CSI: 0.372
Max Web CSI: 0.858

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1587	/-	/-	/732	/84	/129
G	1599	/-	/-	/737	/86	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 1.7 (Truss)
G Brg Wid = 3.5 Min Req = 1.7 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	211	- 3989	C - D	212	- 3997

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3876	- 313	I - H	5193	- 306
J - I	5193	- 306	H - G	3883	- 208

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	235	- 3991	C - H	118	- 1259
B - J	754	0	H - D	765	0
J - C	120	- 1268	D - G	234	- 4034

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 DF-L 2400f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.74	26.95	5.28
23.92	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

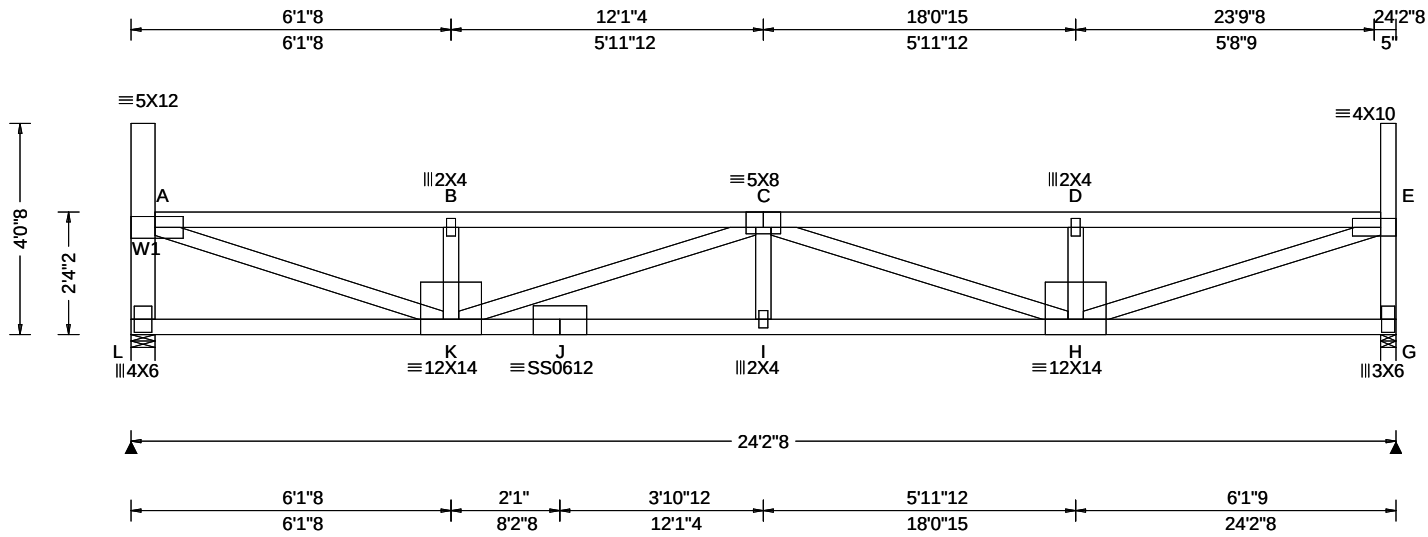
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37178 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T23	Cust: R 9316 JRef:1XfP93160003 T184 DrwNo: 140.22.1622.47795 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.318 I	914	360
VERT(CL):	0.591 I	491	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.100 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.862
Max BC CSI: 0.651
Max Web CSI: 0.924

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/85	/132
G	1553	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	209	- 3686	C - D	209	- 3691
B - C	209	- 3681	D - E	209	- 3696

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4772	- 295	I - H	4772	- 295
J - I	4772	- 295			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	99	- 1372	C - H	111	- 1143
A - K	3690	- 231	H - E	3767	- 231
K - C	114	- 1153	E - G	101	- 1392

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.70	25.57	5.57
23.92	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

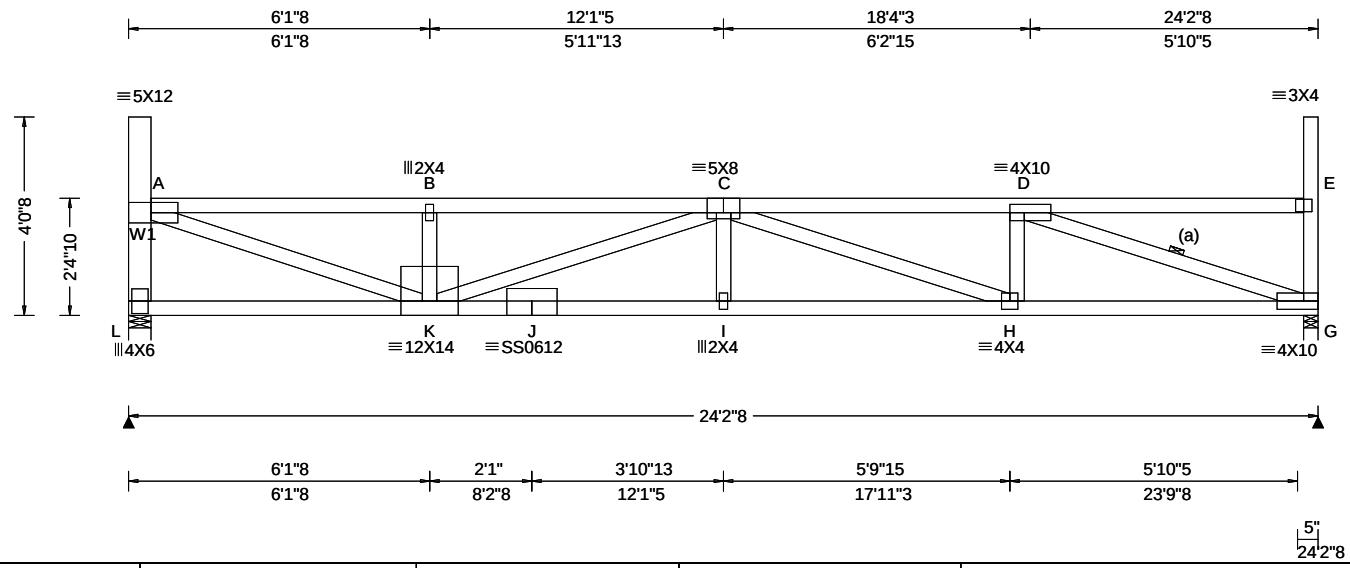
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37179 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T24	Cust: R 9316 JRef:1XfP93160003 T176 DrwNo: 140.22.1622.48057 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.298 I	973	360
VERT(CL):	0.555 I	523	240
HORZ(LL):	0.054 G	-	-
HORZ(TL):	0.100 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.822
Max BC CSI: 0.647
Max Web CSI: 0.890

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/85	/131
G	1553	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	206	- 3615	C - D	202	- 3649
B - C	205	- 3610			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4678	- 292	I - H	4678	- 292
J - I	4678	- 292	H - G	3542	- 202

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1373	C - H	112	- 1093
A - K	3626	- 227	H - D	772	0
K - C	112	- 1131	D - G	225	- 3704

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.26". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

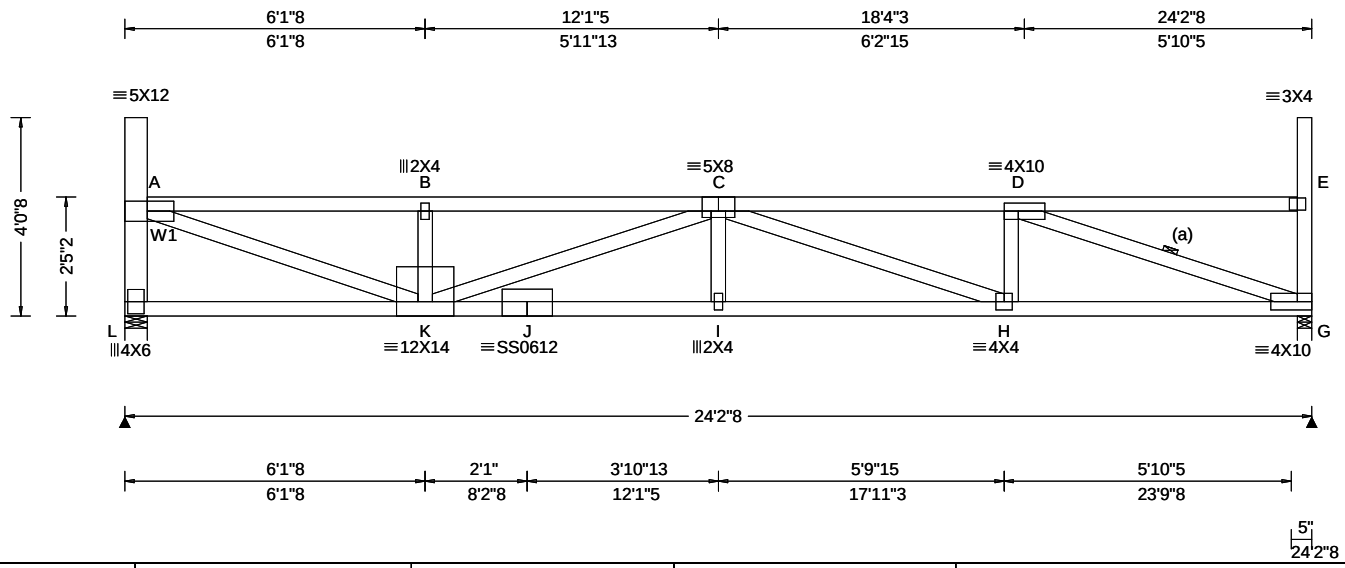
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37180 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T25	Cust: R 9316 JRef:1XfP93160003 T172 DrwNo: 140.22.1622.46426 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.287 I	999	360
VERT(CL):	0.534 I	543	240
HORZ(LL):	0.053 G	-	-
HORZ(TL):	0.098 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.793
Max BC CSI: 0.641
Max Web CSI: 0.875

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/85	/129
G	1553	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	202	- 3547	C - D	198	- 3579
B - C	201	- 3542			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4587	- 288	I - H	4587	- 288
J - I	4587	- 288	H - G	3475	- 199

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1373	C - H	109	- 1074
A - K	3564	- 223	H - D	772	0
K - C	110	- 1110	D - G	221	- 3642

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.61	22.80	5.50
23.92	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

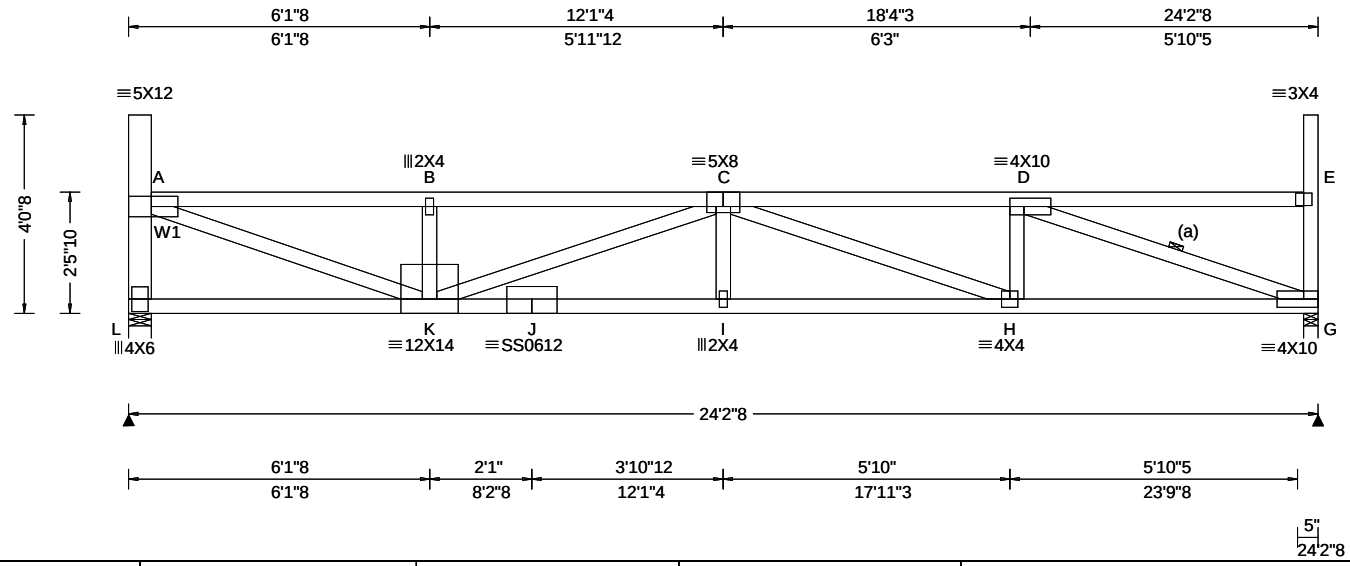
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37181 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T26	Cust: R 9316 JRef:1XfP93160003 T173 DrwNo: 140.22.1622.46509 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.277 I	999	360
VERT(CL):	0.515 I	563	240
HORZ(LL):	0.052 G	-	-
HORZ(TL):	0.096 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.754
Max BC CSI: 0.635
Max Web CSI: 0.860

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/86	/128
G	1553	/-	/-	/737	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	199	- 3480	C - D	195	- 3512
B - C	198	- 3475			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4501	- 284	I - H	4501	- 284
J - I	4501	- 284	H - G	3410	- 197

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1374	C - H	107	- 1055
A - K	3504	- 219	H - D	772	0
K - C	107	- 1091	D - G	218	- 3582

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

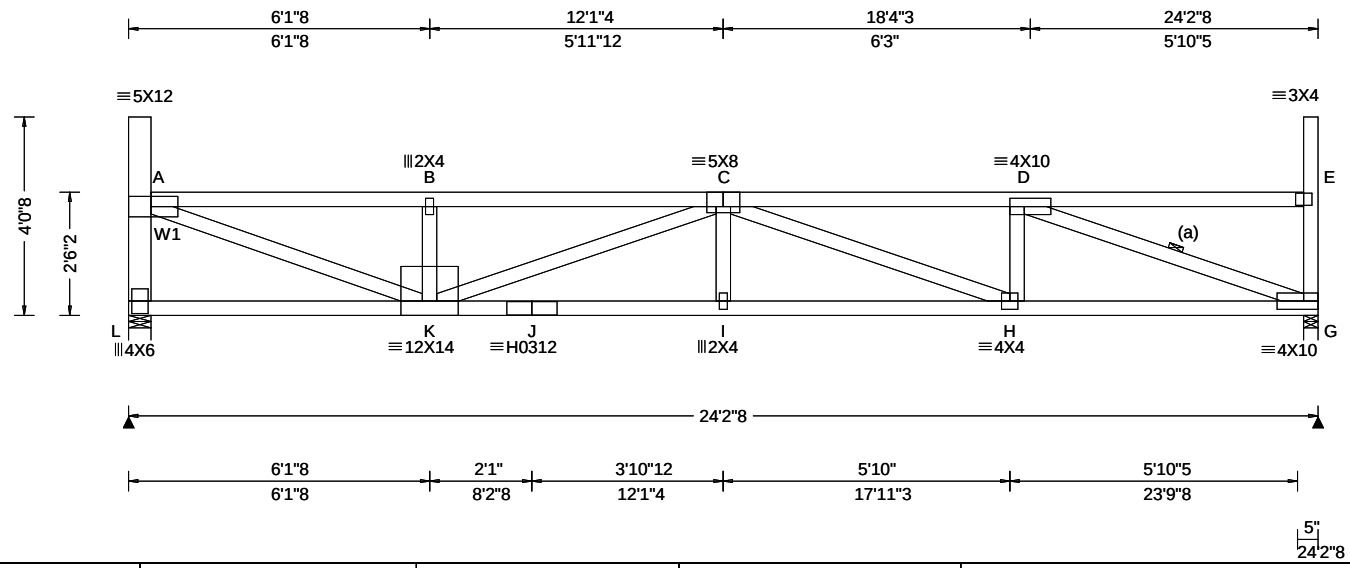
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37182 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T27	Cust: R 9316 JRef:1XfP93160003 T157 DrwNo: 140.22.1622.45991 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.268 I	999	360
VERT(CL):	0.497 I	584	240
HORZ(LL):	0.051 G	-	-
HORZ(TL):	0.094 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.719
Max BC CSI: 0.629
Max Web CSI: 0.846

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/86	/127
G	1553	/-	/-	/737	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	196	- 3416	C - D	192	- 3448
B - C	195	- 3412			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4417	- 280	I - H	4417	- 280
J - I	4417	- 280	H - G	3347	- 195

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1374	C - H	105	- 1037
A - K	3447	- 215	H - D	772	0
K - C	105	- 1072	D - G	214	- 3524

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

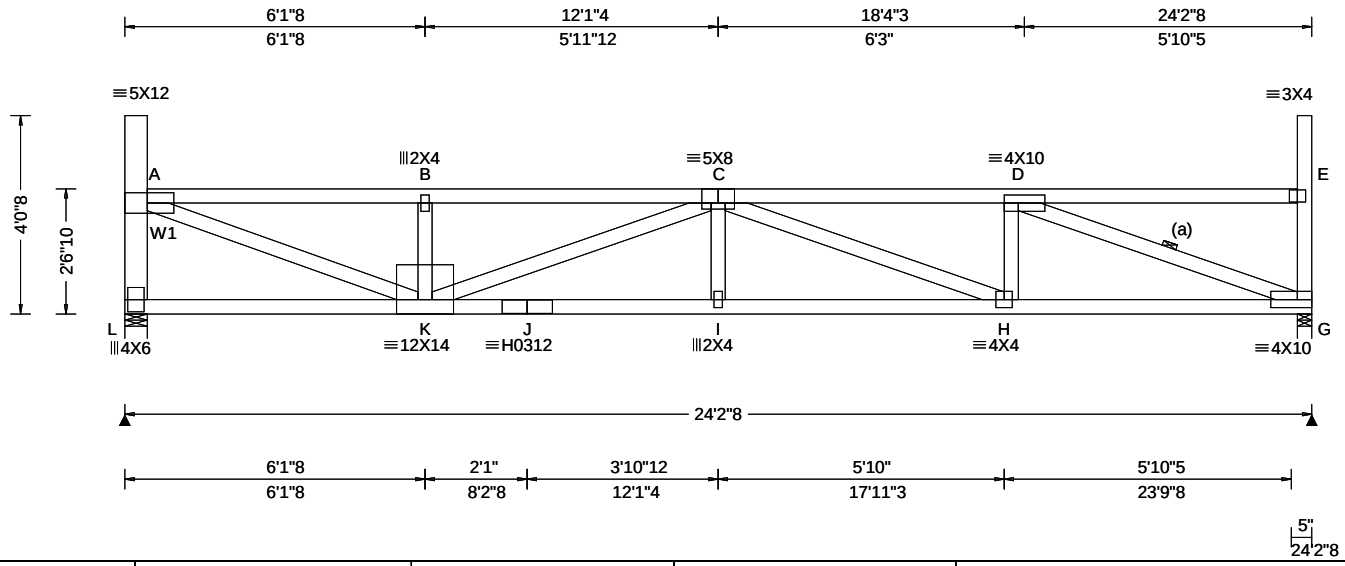
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37183 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T28	Cust: R 9316 JRef:1XfP93160003 T181 DrwNo: 140.22.1622.47535 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.258	I	999	360
VERT(CL): 0.480	I	604	240
HORZ(LL): 0.050	G	-	-
HORZ(TL): 0.093	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.687
Max BC CSI: 0.623
Max Web CSI: 0.832

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/86	/126
G	1553	/-	/-	/736	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	193	- 3355	C - D	189	- 3386
B - C	192	- 3350			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4336	- 276	I - H	4336	- 276
J - I	4336	- 276	H - G	3287	- 193

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1374	C - H	103	- 1020
A - K	3391	- 212	H - D	772	0
K - C	103	- 1054	D - G	211	- 3469

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

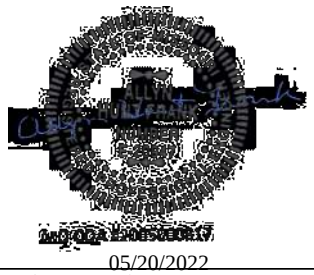
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

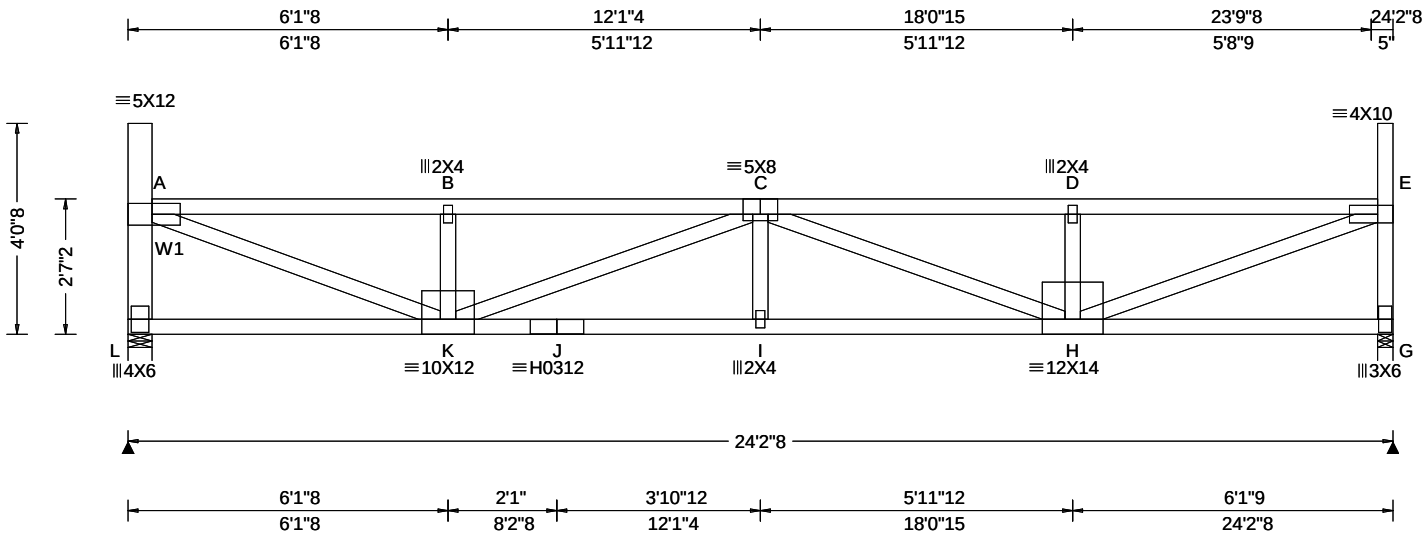
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37184 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T29	Cust: R 9316 JRef:1XfP93160003 T182 DrwNo: 140.22.1622.47313 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.256 I	999	360
VERT(CL):	0.476 I	610	240
HORZ(LL):	0.049 A	-	-
HORZ(TL):	0.090 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.694
Max BC CSI: 0.608
Max Web CSI: 0.836

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/86	/125
G	1553	/-	/-	/736	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	190	- 3295	C - D	189	- 3299
B - C	189	- 3291	D - E	190	- 3304

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4259	- 272	I - H	4259	- 272
J - I	4259	- 272			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	101	- 1374	C - H	97	- 1029
A - K	3338	- 209	H - E	3407	- 209
B - K	80	- 377	D - H	80	- 381
K - C	100	- 1038	E - G	102	- 1394

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.45	17.27	4.16
23.92	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

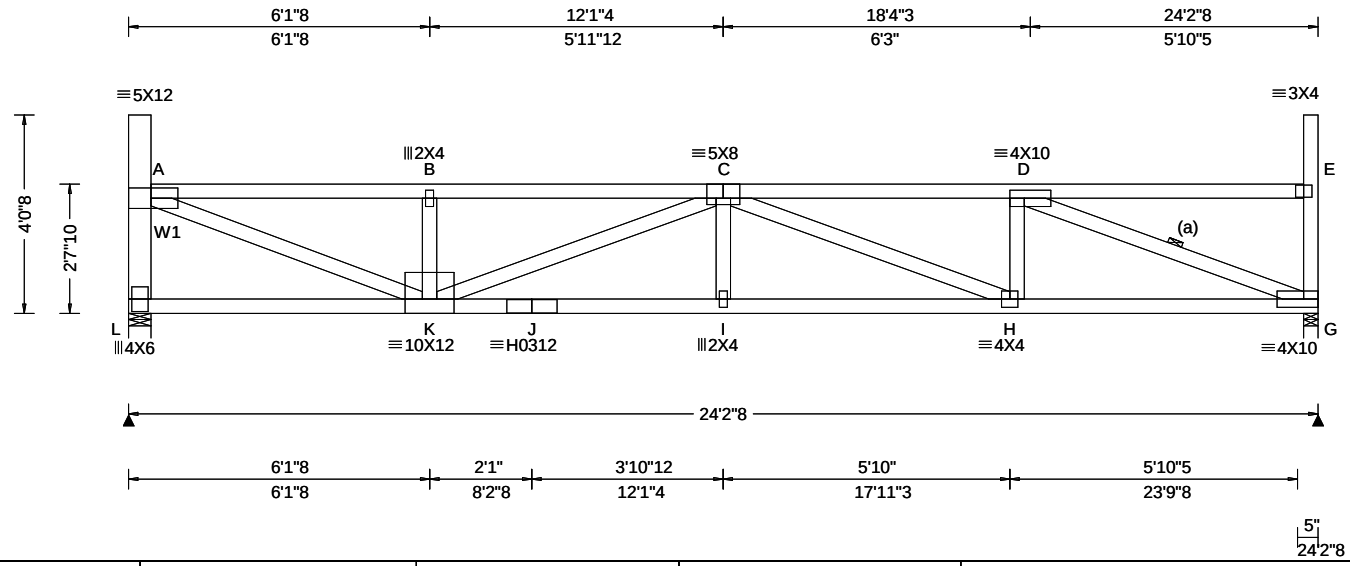
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37185 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T30	Cust: R 9316 JRef:1XfP93160003 T178 DrwNo: 140.22.1622.45544 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.242 I	999	360
VERT(CL):	0.449 I	646	240
HORZ(LL):	0.048 G	-	-
HORZ(TL):	0.089 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.649
Max BC CSI: 0.612
Max Web CSI: 0.806

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/86	/123
G	1553	/-	/-	/736	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	187	- 3238	C - D	183	- 3267
B - C	186	- 3233			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4184	- 269	I - H	4184	- 269
J - I	4184	- 269	H - G	3172	- 189

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	101	- 1375	C - H	98	- 988
A - K	3287	- 205	H - D	772	0
B - K	80	- 377	D - G	205	- 3364
K - C	98	- 1021			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

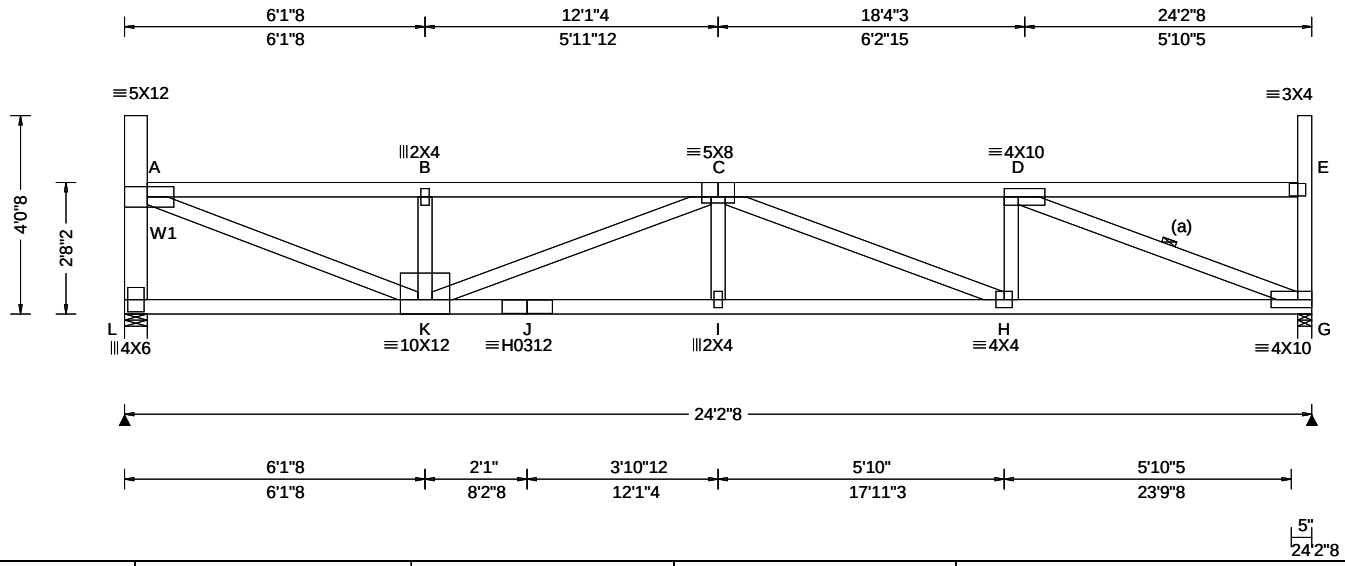
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37186 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T31	Cust: R 9316 JRef:1XfP93160003 T185 DrwNo: 140.22.1622.46164 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.234 I	999	360
VERT(CL):	0.435 I	668	240
HORZ(LL):	0.047 G	-	-
HORZ(TL):	0.088 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.637
Max BC CSI: 0.606
Max Web CSI: 0.794

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/86	/122
G	1553	/-	/-	/736	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	184	- 3183	C - D	180	- 3211
B - C	183	- 3178			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4111	- 266	I - H	4111	- 266
J - I	4111	- 266	H - G	3118	- 187

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	101	- 1375	C - H	96	- 972
A - K	3237	- 202	H - D	772	0
B - K	80	- 379	D - G	202	- 3314
K - C	96	- 1005			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.36	14.50	3.50
23.92	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

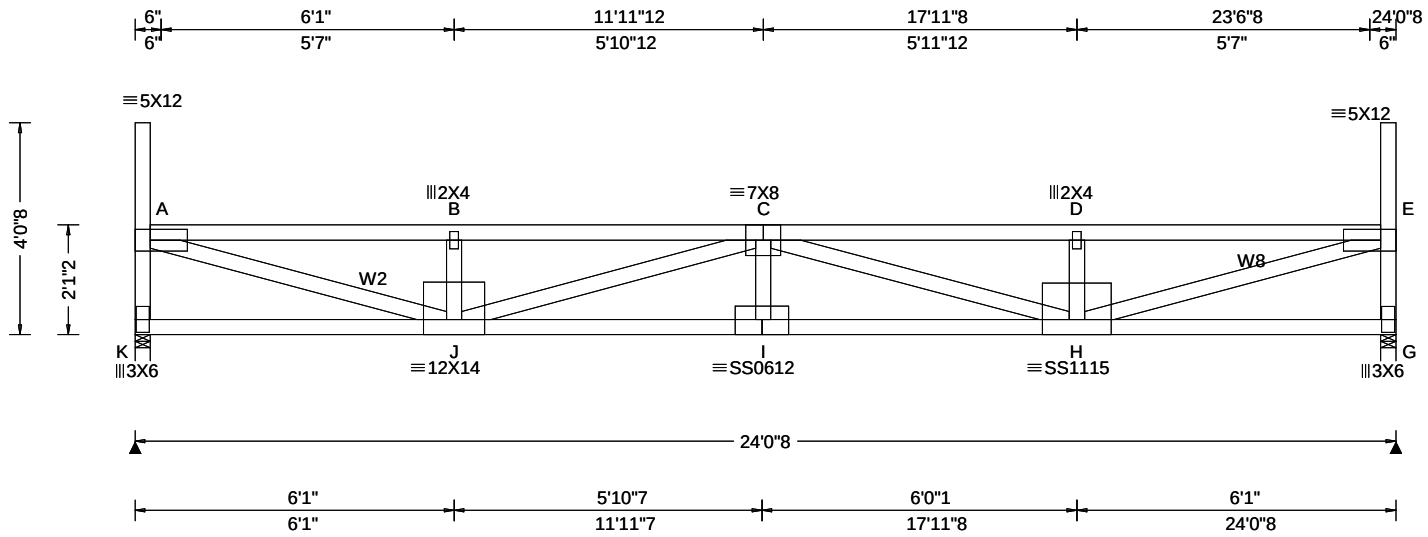
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37187 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T33	Cust: R 9316 JRef:1XfP93160003 T191 DrwNo: 140.22.1622.46621 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.380 I	759	360
VERT(CL):	0.706 I	408	240
HORZ(LL):	0.059 A	-	-
HORZ(TL):	0.110 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.932
Max BC CSI: 0.715
Max Web CSI: 0.844

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/733	/86	/139
G	1542	/-	/-	/733	/86	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	255	- 4139	C - D	254	- 4138
B - C	254	- 4133	D - E	255	- 4143

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5337	- 321	I - H	5337	- 321

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	99	- 1381	C - H	138	- 1252
A - J	4178	- 256	H - E	4183	- 257
J - C	142	- 1258	E - G	99	- 1382

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2,W8 2x4 SPF 2100f-1.8E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.95	33.87	4.20
23.75	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.33". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

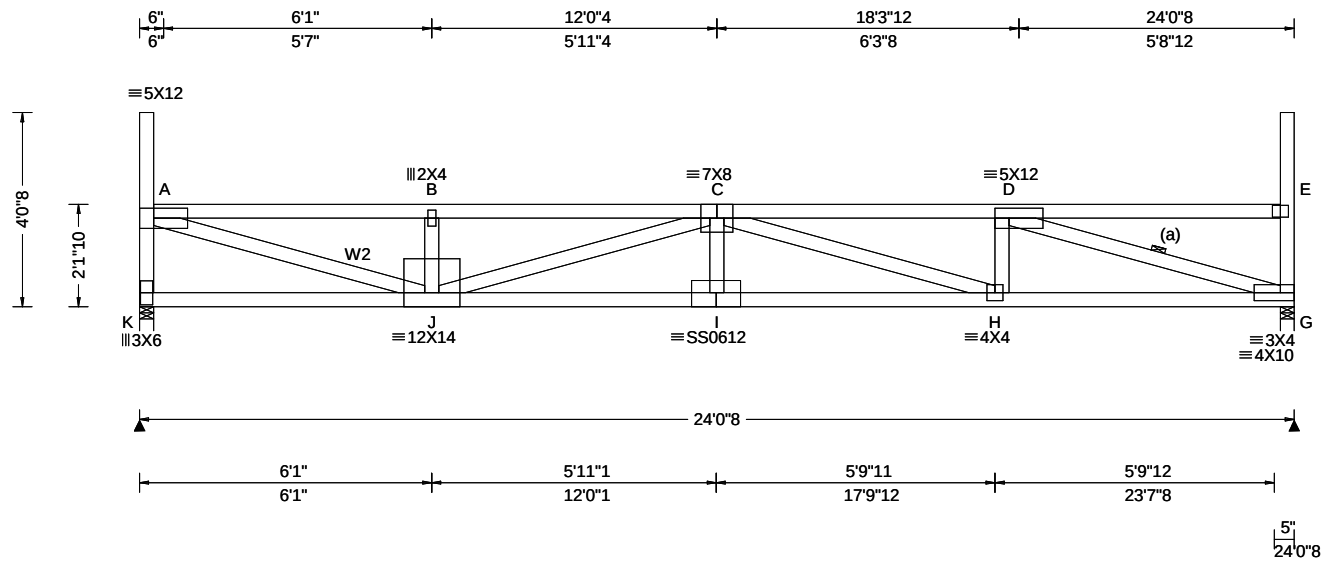
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37188 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T34	Cust: R 9316 JRef:1XfP93160003 T200 DrwNo: 140.22.1622.47864 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.363	I	795	360
VERT(CL): 0.674	I	428	240
HORZ(LL): 0.059	G	-	-
HORZ(TL): 0.110	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.916
Max BC CSI: 0.703
Max Web CSI: 0.849

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1542	/-	/-	/733	/86	/138
G	1542	/-	/-	/733	/86	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	250	- 4051	C - D	247	- 4073
B - C	249	- 4046			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5221	- 317	H - G	3954	- 214
I - H	5221	- 317			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	100	- 1382	C - H	138	- 1205
A - J	4097	- 251	H - D	767	- 2
J - C	140	- 1231	D - G	247	- 4084

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

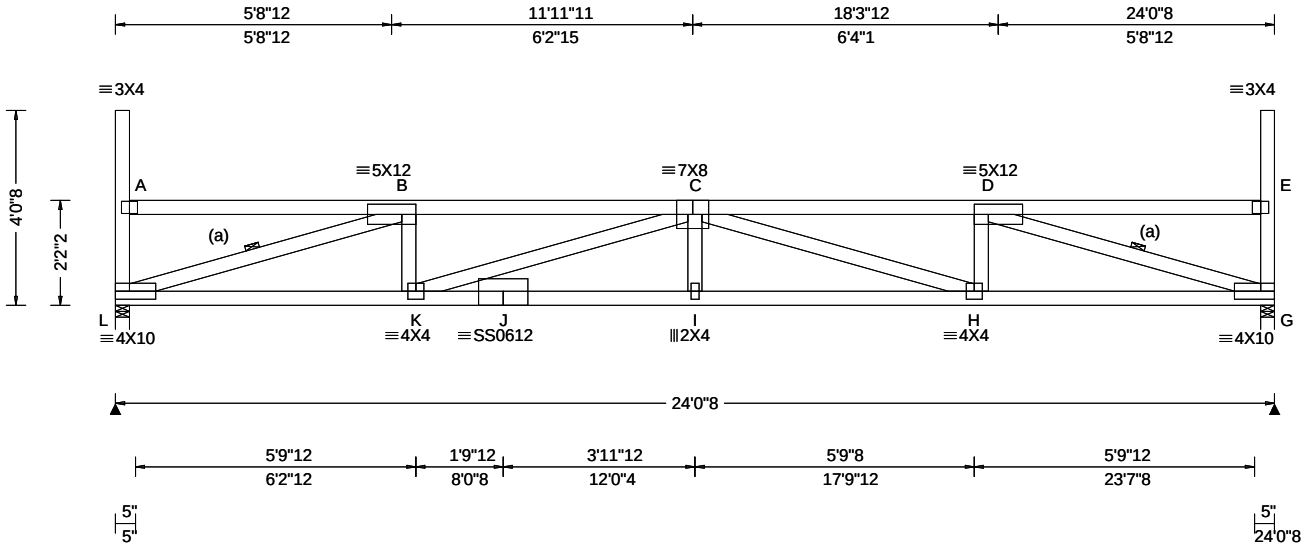
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37189 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T35	Cust: R 9316 JRef:1XfP93160003 T205 DrwNo: 140.22.1622.45699 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.346	I	833	360
VERT(CL): 0.643	I	448	240
HORZ(LL): 0.073	G	-	-
HORZ(TL): 0.136	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.679
Max BC CSI: 0.683
Max Web CSI: 0.833

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/86	/136
G	1541	/-	/-	/732	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	240	- 3982	C - D	240	- 3981

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3864	- 352	I - H	5103	- 310
K - J	5103	- 310	H - G	3864	- 209
J - I	5103	- 310			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	241	- 4000	C - H	134	- 1180
B - K	768	- 1	H - D	767	- 1
K - C	136	- 1179	D - G	240	- 3999

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

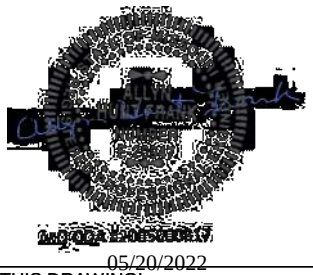
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.35" DL: 0.30". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

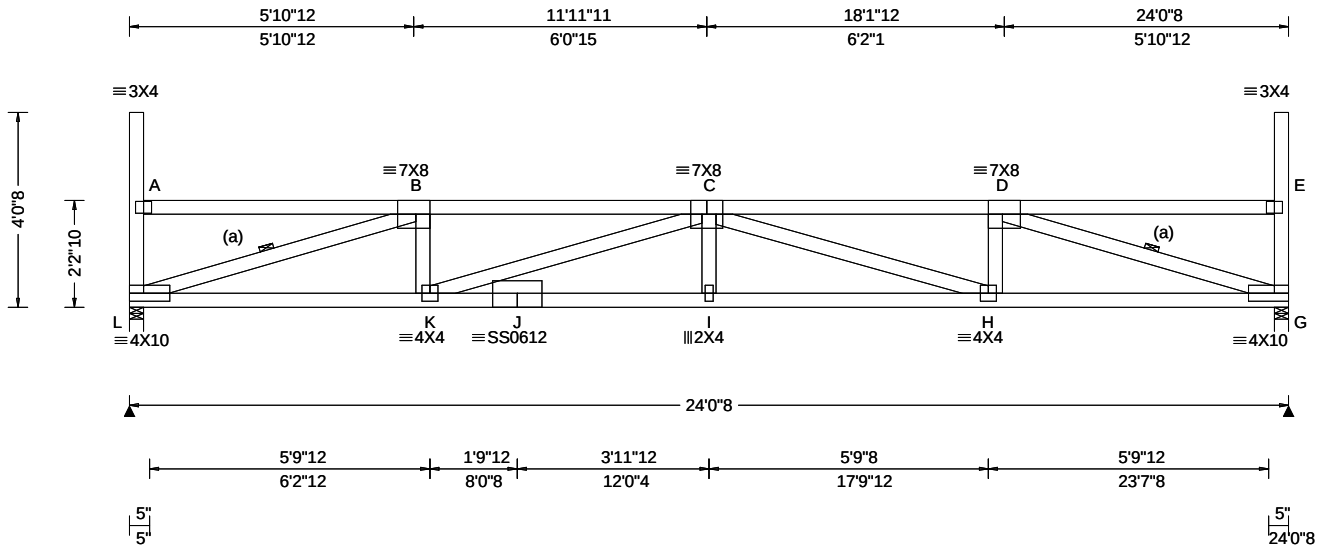
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37190 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T36	Cust: R 9316 JRef:1XfP93160003 T213 DrwNo: 140.22.1622.47147 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.89 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.332 I	868	360
VERT(CL):	0.617 I	467	240
HORZ(LL):	0.072 G	-	-
HORZ(TL):	0.134 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.656
Max BC CSI: 0.673
Max Web CSI: 0.820

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/86	/135
G	1541	/-	/-	/732	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	236	- 3898	C - D	236	- 3897

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3783	- 346	I - H	4994	- 305
K - J	4994	- 305	H - G	3782	- 207
J - I	4994	- 305			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	236	- 3924	C - H	131	- 1156
B - K	768	- 1	H - D	767	- 1
K - C	133	- 1155	D - G	236	- 3923

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.82	29.72	4.79
23.75	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

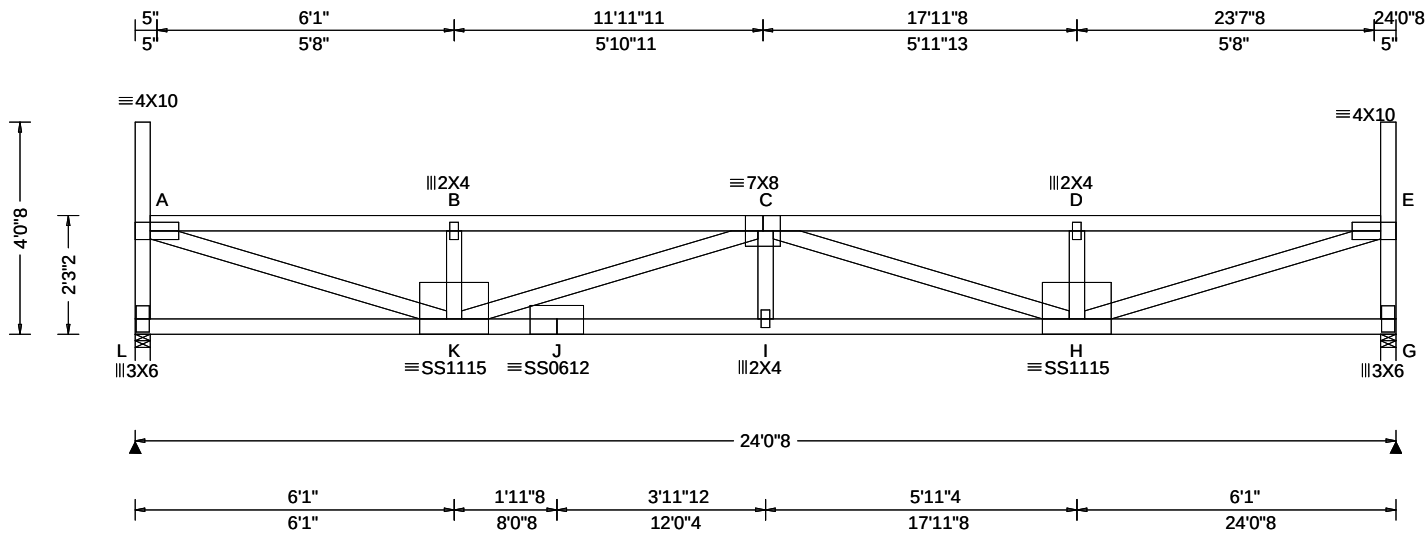
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37191 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T37	Cust: R 9316 JRef:1XfP93160003 T204 DrwNo: 140.22.1622.47315 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.93 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.336 I	859	360
VERT(CL):	0.624 I	462	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.101 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.869
Max BC CSI: 0.662
Max Web CSI: 0.945

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/86	/134
G	1541	/-	/-	/732	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	213	- 3791	C - D	212	- 3785
B - C	212	- 3786	D - E	213	- 3790

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4892	- 298	I - H	4892	- 298
J - I	4892	- 298			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1381	C - H	124	- 1166
A - K	3851	- 235	H - E	3850	- 235
K - C	128	- 1165	E - G	100	- 1380

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.78	28.34	5.03
23.75	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

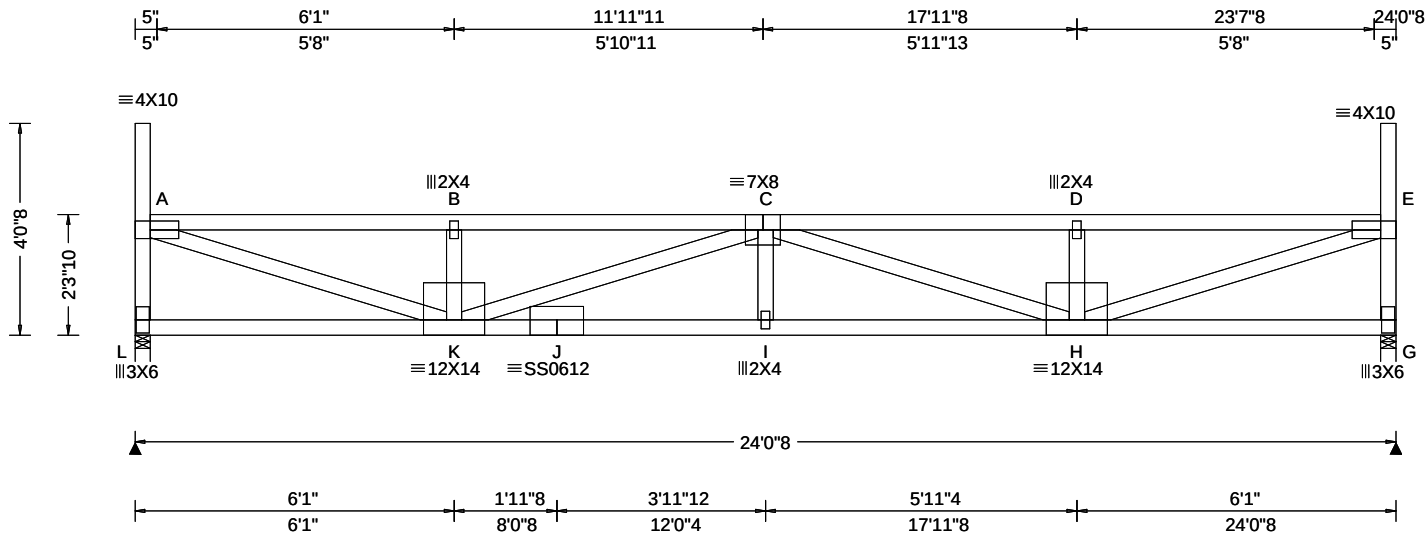
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37192 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T38	Cust: R 9316 JRef:1XfP93160003 T209 DrwNo: 140.22.1622.47669 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.97 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.323 I	893	360
VERT(CL):	0.600 I	480	240
HORZ(LL):	0.053 A	-	-
HORZ(TL):	0.099 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.854
Max BC CSI: 0.652
Max Web CSI: 0.928

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/86	/133
G	1541	/-	/-	/732	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	209	- 3715	C - D	208	- 3709
B - C	208	- 3710	D - E	209	- 3714

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4792	- 293	I - H	4792	- 293
J - I	4792	- 293			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1381	C - H	112	- 1143
A - K	3781	- 230	H - E	3780	- 231
K - C	116	- 1142	E - G	100	- 1381

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.74	26.95	5.28
23.75	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

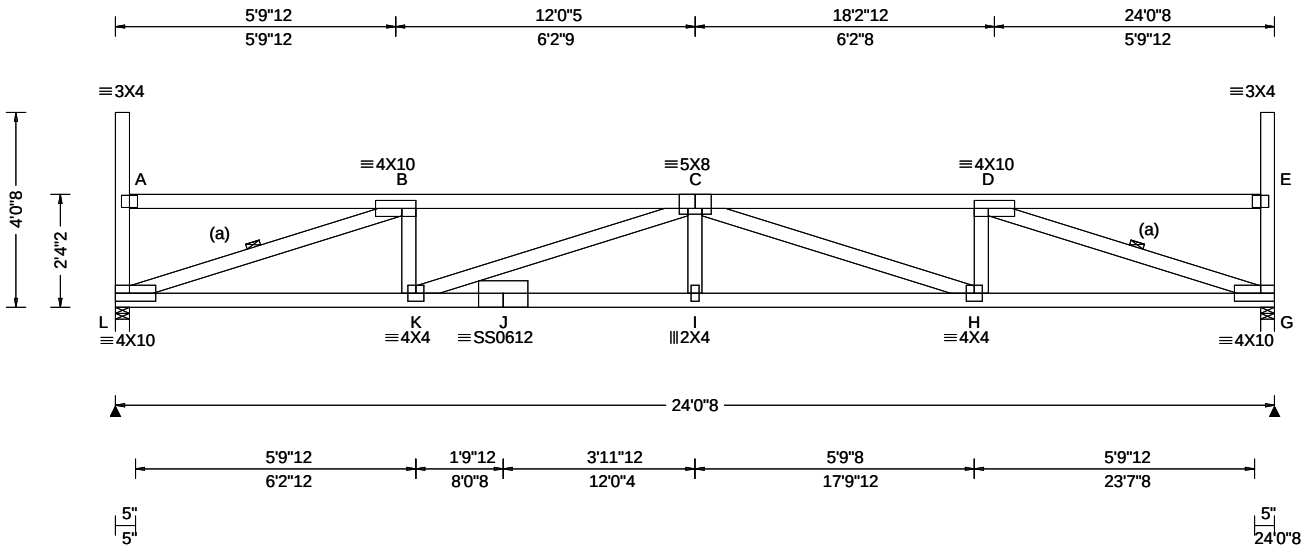
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37193 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T39	Cust: R 9316 JRef:1XfP93160003 T199 DrwNo: 140.22.1622.47750 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.296 I	976	360
VERT(CL):	0.549 I	525	240
HORZ(LL):	0.068 G	-	-
HORZ(TL):	0.126 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.598
Max BC CSI: 0.650
Max Web CSI: 0.783

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/132
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	202	-3671	C - D	202	-3670

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3563	-310	I - H	4703	-294
K - J	4703	-294	H - G	3562	-201
J - I	4703	-294			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	226	-3721	C - H	115	-1096
B - K	769	0	H - D	769	0
K - C	117	-1095	D - G	226	-3719

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.70	25.57	5.57
23.75	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

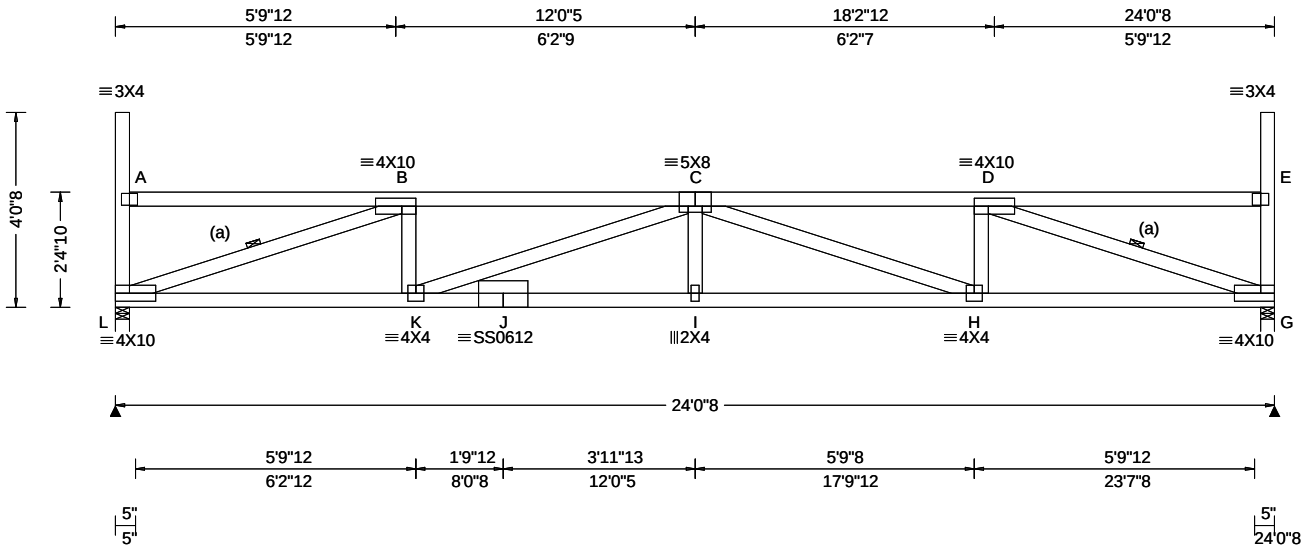
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37194 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T40	Cust: R 9316 JRef:1XfP93160003 T211 DrwNo: 140.22.1622.46032 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.285 I	999	360
VERT(CL):	0.529 I	545	240
HORZ(LL):	0.066 G	-	-
HORZ(TL):	0.123 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.583
Max BC CSI: 0.643
Max Web CSI: 0.772

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/131
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	199	-3600	C - D	199	-3598

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3494	-305	I - H	4611	-290
K - J	4611	-290	H - G	3492	-199
J - I	4611	-290			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	222	-3657	C - H	113	-1077
B - K	769	0	H - D	769	0
K - C	114	-1075	D - G	222	-3655

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

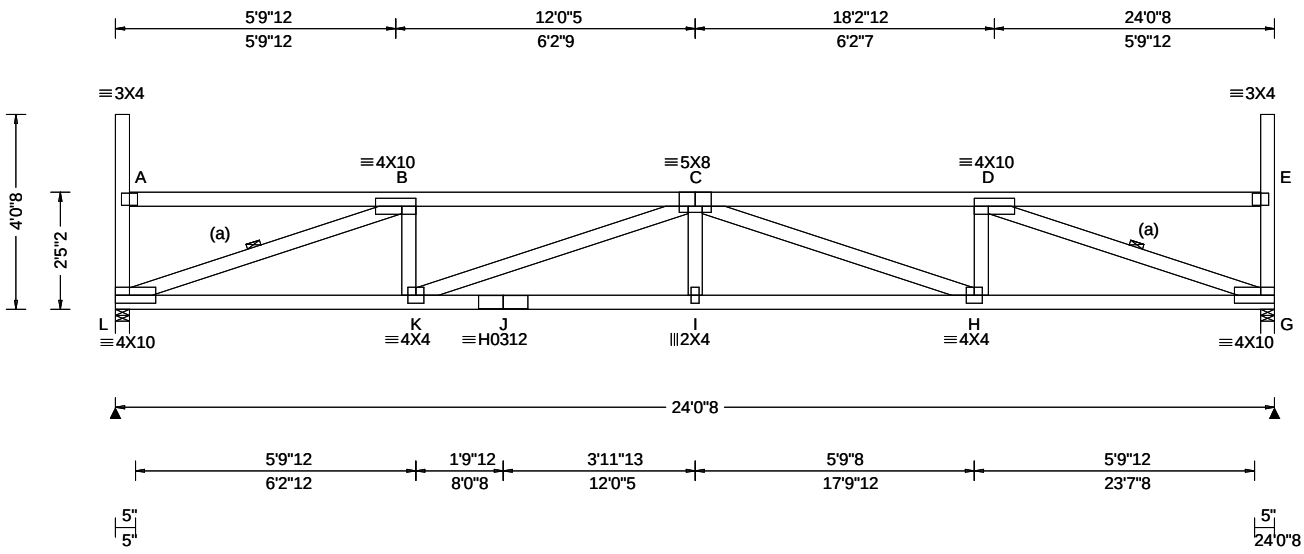
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37195 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T41	Cust: R 9316 JRef:1XfP93160003 T201 DrwNo: 140.22.1622.47363 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.274 I	999	360
VERT(CL):	0.510 I	565	240
HORZ(LL):	0.065 G	-	-
HORZ(TL):	0.121 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.568
Max BC CSI: 0.637
Max Web CSI: 0.761

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/129
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	195	- 3531	C - D	196	- 3530

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3427	- 320	I - H	4522	- 286
K - J	4522	- 286	H - G	3426	- 197
J - I	4522	- 286			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	219	- 3595	C - H	118	- 1058
B - K	769	- 1	H - D	769	0
K - C	120	- 1056	D - G	218	- 3594

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

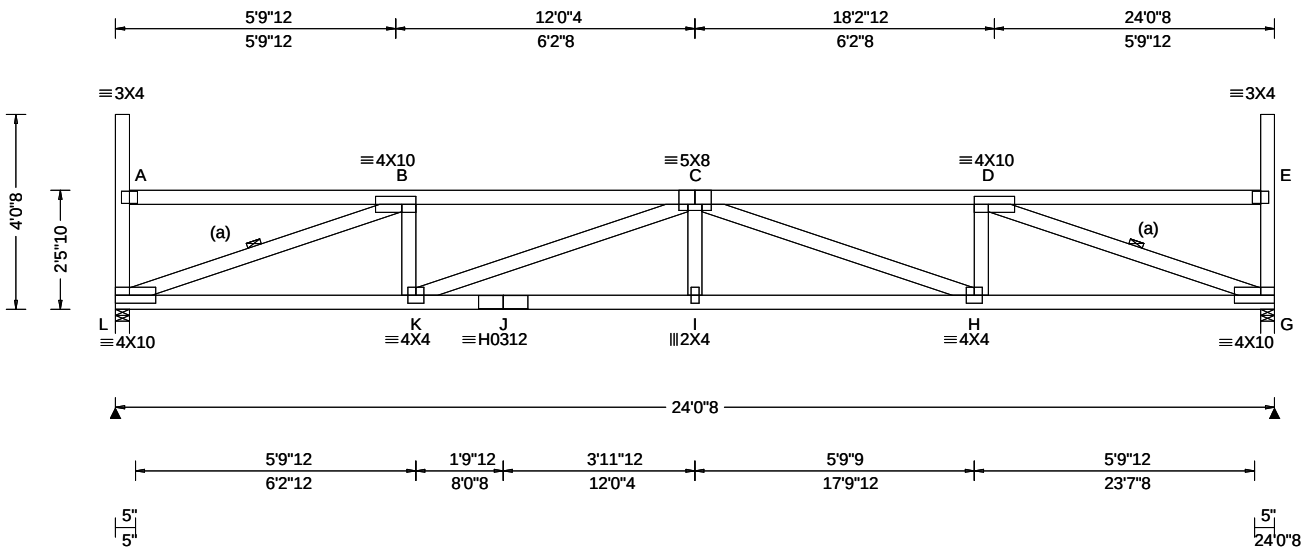
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37196 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T42	Cust: R 9316 JRef:1XfP93160003 T195 DrwNo: 140.22.1622.48020 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.265 I	999	360
VERT(CL):	0.492 I	586	240
HORZ(LL):	0.064 G	-	-
HORZ(TL):	0.119 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.553
Max BC CSI: 0.631
Max Web CSI: 0.751

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/128
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	192	- 3465	C - D	193	- 3464

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3363	- 315	I - H	4437	- 282
K - J	4437	- 282	H - G	3362	- 195
J - I	4437	- 282			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	215	- 3536	C - H	116	- 1039
B - K	769	0	H - D	769	0
K - C	117	- 1038	D - G	215	- 3535

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.57	21.42	5.16
23.75	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

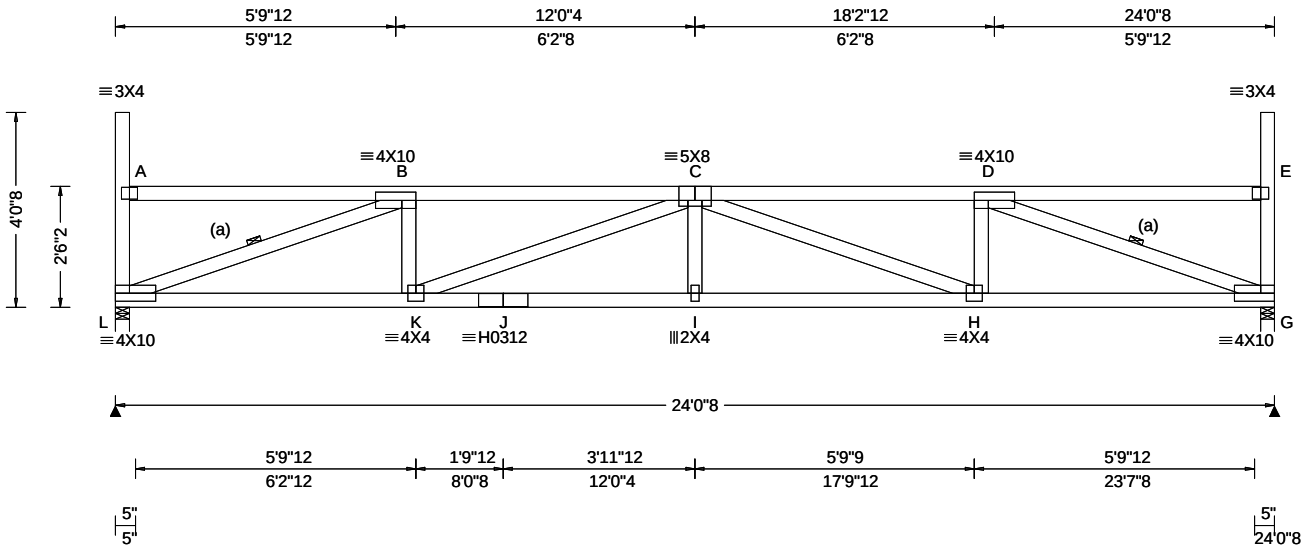
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37197 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T43	Cust: R 9316 JRef:1XfP93160003 T198 DrwNo: 140.22.1622.46104 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.255 I	999	360
VERT(CL):	0.475 I	607	240
HORZ(LL):	0.063 G	-	-
HORZ(TL):	0.116 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.540
Max BC CSI: 0.625
Max Web CSI: 0.741

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/127
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	211	-3401	C - D	211	-3400

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3301	-310	I - H	4354	-278
K - J	4354	-278	H - G	3300	-192
J - I	4354	-278			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	212	-3479	C - H	113	-1022
B - K	769	0	H - D	769	0
K - C	114	-1021	D - G	212	-3478

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.53	20.04	4.83
23.75	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

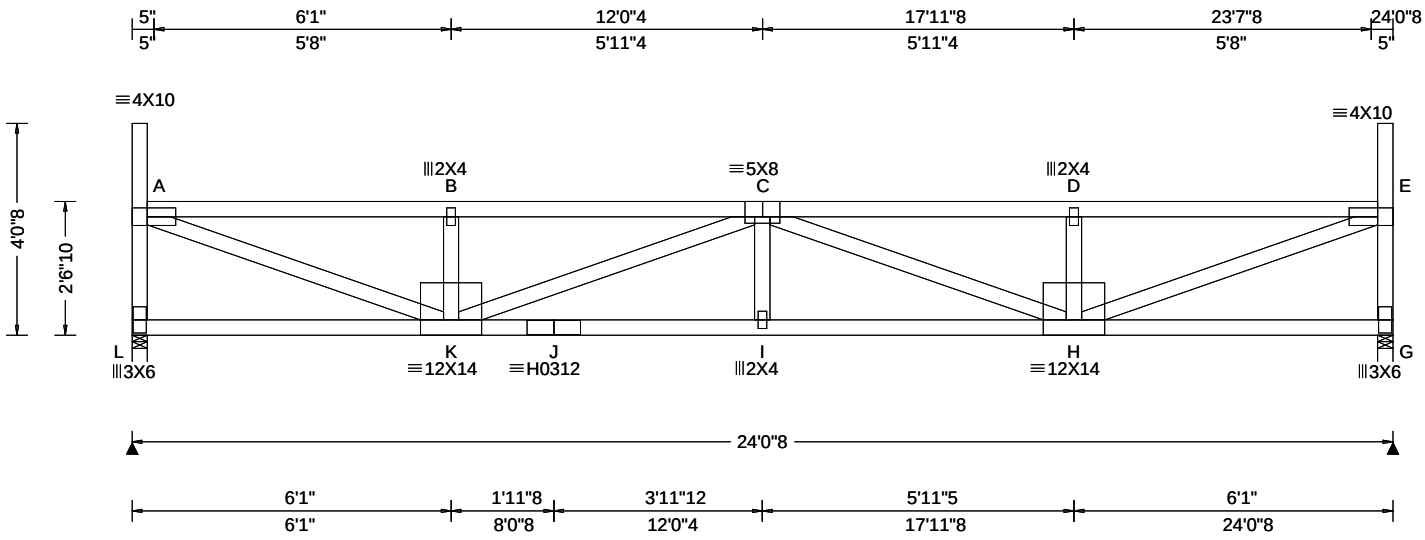
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37198 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T44	Cust: R 9316 JRef:1XfP93160003 T202 DrwNo: 140.22.1622.48287 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.260 I	999	360
VERT(CL):	0.482 I	597	240
HORZ(LL):	0.048 A	-	-
HORZ(TL):	0.089 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.693
Max BC CSI: 0.608
Max Web CSI: 0.838

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/126
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	211	-3318	C - D	211	-3312
B - C	211	-3313	D - E	211	-3317

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4276	-272	I - H	4276	-272
J - I	4276	-272			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	102	-1385	C - H	107	-1032
A - K	3417	-209	H - E	3416	-210
B - K	79	-376	D - H	80	-376
K - C	110	-1030	E - G	102	-1385

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.49	18.65	4.50
23.75	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

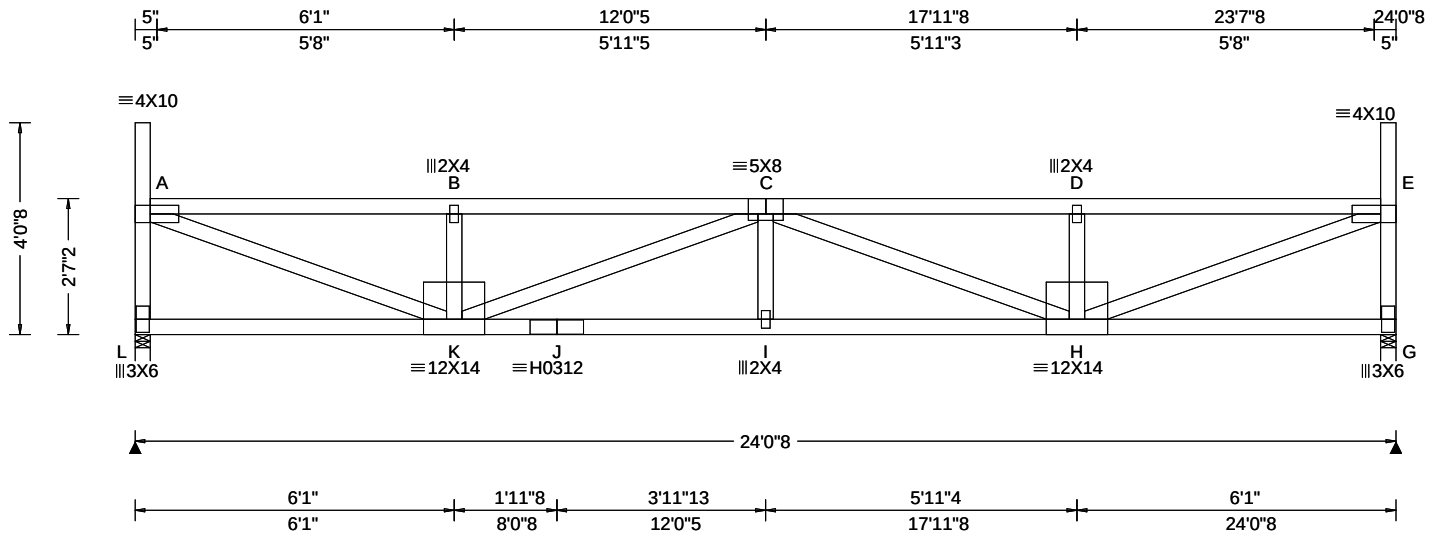
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37199 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T45	Cust: R 9316 JRef:1XfP93160003 T196 DrwNo: 140.22.1622.47985 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.251	I	999	360
VERT(CL): 0.466	I	618	240
HORZ(LL): 0.047	A	-	-
HORZ(TL): 0.088	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.676
Max BC CSI: 0.602
Max Web CSI: 0.825

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/87	/125
G	1542	/-	/-	/731	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	208	- 3260	C - D	207	- 3253
B - C	208	- 3255	D - E	208	- 3258

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4200	- 269	I - H	4200	- 269
J - I	4200	- 269			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	102	- 1385	C - H	105	- 1015
A - K	3364	- 206	D - H	80	- 378
B - K	80	- 378	H - E	3362	- 207
K - C	108	- 1013	E - G	102	- 1385

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.45	17.27	4.16
23.75	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

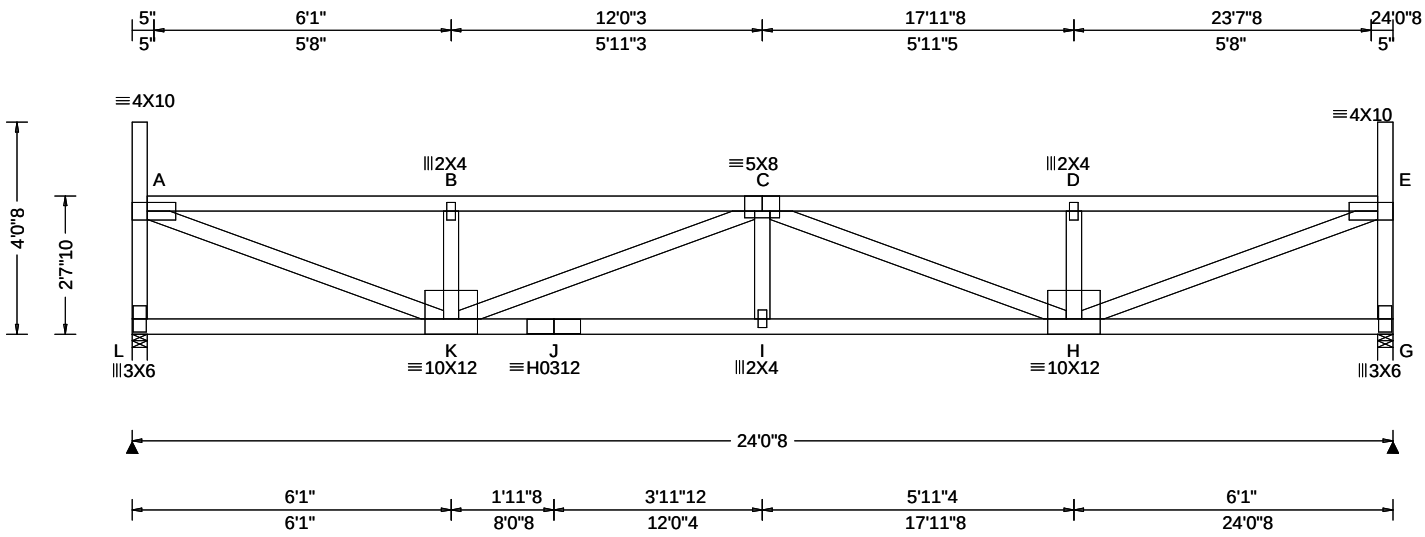
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37200 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T46	Cust: R 9316 JRef:1XfP93160003 T207 DrwNo: 140.22.1622.47804 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.243 I	999	360
VERT(CL):	0.451 I	639	240
HORZ(LL):	0.046 A	-	-
HORZ(TL):	0.086 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.663
Max BC CSI: 0.597
Max Web CSI: 0.813

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/88	/123
G	1542	/-	/-	/731	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	205	- 3203	C - D	204	- 3197
B - C	204	- 3198	D - E	205	- 3202

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4125	- 265	I - H	4125	- 265
J - I	4125	- 265			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	102	- 1385	C - H	103	- 997
A - K	3311	- 203	H - E	3311	- 203
B - K	80	- 380	D - H	80	- 380
K - C	105	- 997	E - G	102	- 1385

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.41	15.89	3.83
23.75	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

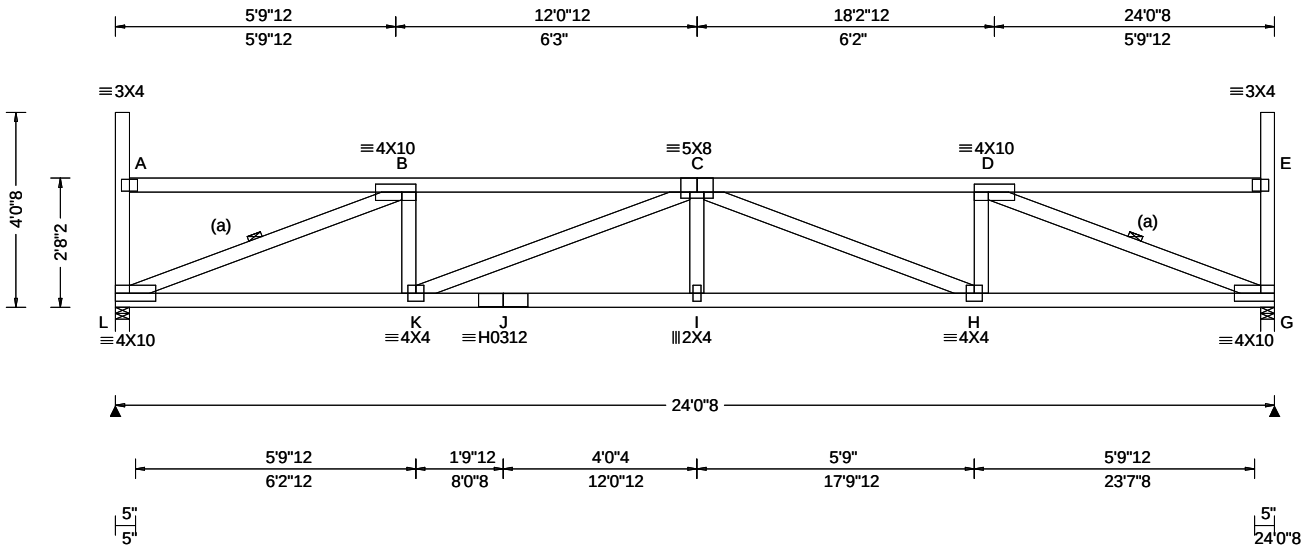
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37201 / FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T47	Cust: R 9316 JRef:1XfP93160003 T203 DrwNo: 140.22.1622.45495 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.223 I	999	360
VERT(CL):	0.415 I	694	240
HORZ(LL):	0.058 G	-	-
HORZ(TL):	0.108 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.516
Max BC CSI: 0.604
Max Web CSI: 0.706

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/88	/122
G	1542	/-	/-	/731	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	199	-3169	C - D	199	-3166

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3076	-291	I - H	4053	-264
K - J	4053	-264	H - G	3073	-185
J - I	4053	-264			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	200	-3274	C - H	104	-960
B - K	768	0	H - D	770	0
K - C	105	-955	D - G	200	-3270

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.22" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

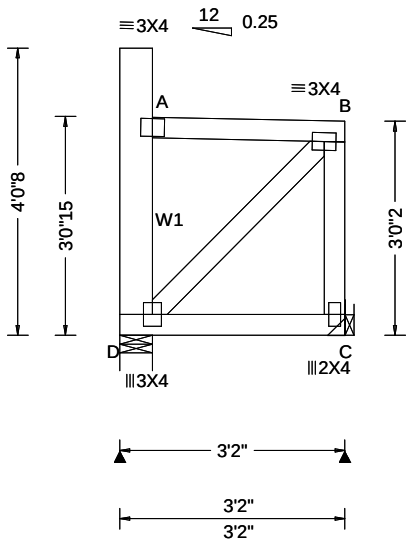
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37202 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48	Cust: R 9316 JRef:1XfP93160003 T197 DrwNo: 140.22.1622.48251 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.71 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.001	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.139
Max BC CSI: 0.123
Max Web CSI: 0.033

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	176	/-	/-	/111	/53	/78
C	204	/-	/-	/150	/47	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

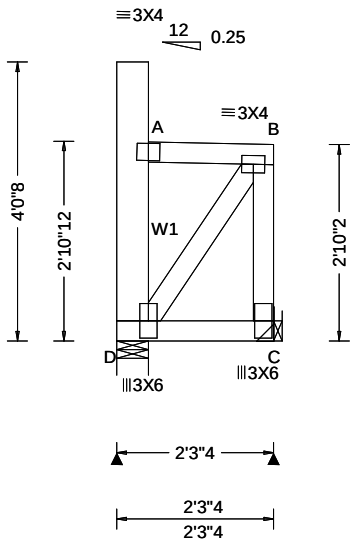
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37204 / MONO FROM:	Ply: 1 Qty: 16	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T49	Cust: R 9316 JRef:1XfP93160003 T217 DrwNo: 140.22.1622.46305 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.065
Max BC CSI: 0.063
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	119	/-	/-	/99	/78	/80
C	144	/-	/-	/147	/61	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

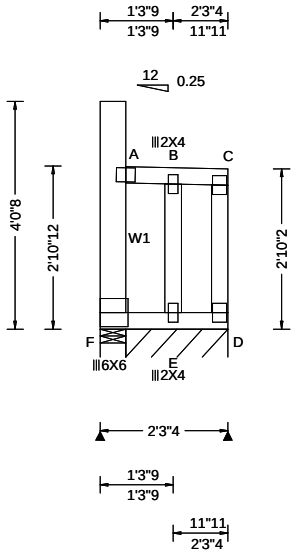
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37205 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T50	Cust: R 9316 JRef:1XfP93160003 T138 DrwNo: 140.22.1622.45200 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	A	999	360
VERT(CL): 0.009	A	999	240
HORZ(LL): 0.124	B	-	-
HORZ(TL): 0.141	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.111
Max BC CSI: 0.255
Max Web CSI: 0.115

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	36	/-8	/-	/118	/150	/92
D*	139	/-	/-	/148	/70	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 21.7 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

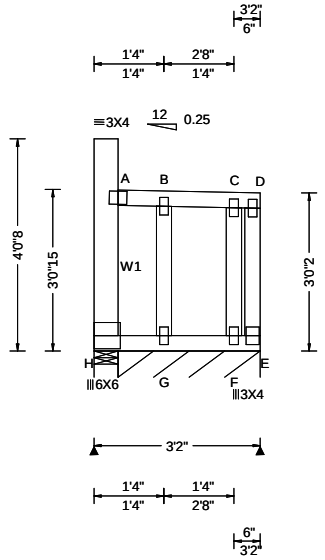
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37206 / GABL FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T51	Cust: R 9316 JRef:1XfP93160003 T169 DrwNo: 140.22.1622.47159 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.71 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	A	999	360
VERT(CL): 0.010	A	999	240
HORZ(LL): 0.122	C	-	-
HORZ(TL): 0.143	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.105
Max BC CSI: 0.293
Max Web CSI: 0.131

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	47	/-	/-	/123	/131	/90
E*	123	/-	/-	/106	/44	/-

Wind reactions based on MWFRS
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 32.5 Min Req = -
Bearings H & H are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

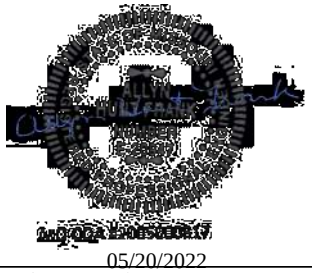
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

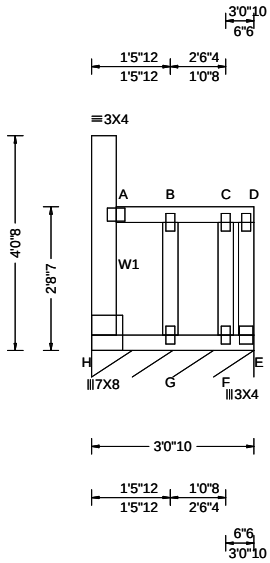
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37207 / GABL FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T52	Cust: R 9316 JRef:1XfP93160003 T132 DrwNo: 140.22.1622.47604 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	A	999	360
VERT(CL): 0.009	A	999	240
HORZ(LL): 0.115	A	-	-
HORZ(TL): 0.134	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.115
Max BC CSI: 0.323
Max Web CSI: 0.142

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E*	119	/-	/-	/56	/5	/30

Wind reactions based on MWFRS
E Brg Wid = 36.6 Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.34	13.63	2.59

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

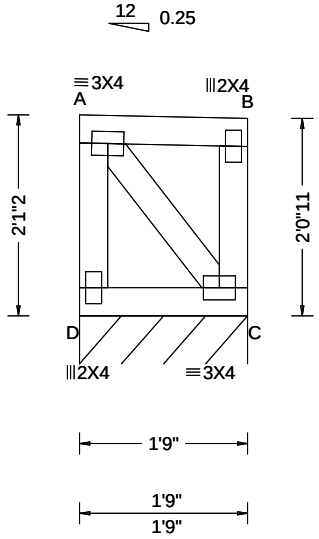
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37208 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE01	Cust: R 9316 JRef:1XfP93160003 T188 DrwNo: 140.22.1622.44943 / NDW 05/20/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.08 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.039 Max Web CSI: 0.021 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 21.0 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

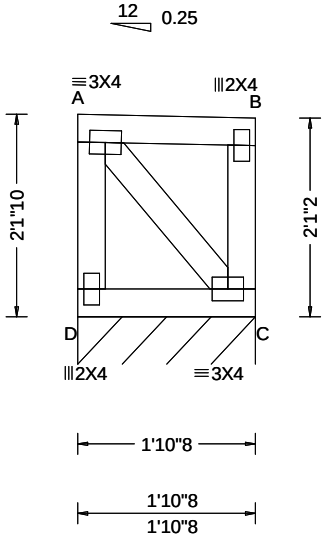
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37209 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE02	Cust: R 9316 JRef:1XfP93160003 T189 DrwNo: 140.22.1622.44668 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.12 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.022

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/18

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

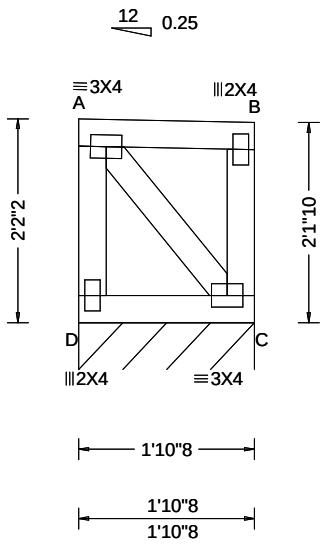
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37210 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE03	Cust: R 9316 JRef:1XfP93160003 T190 DrwNo: 140.22.1622.44899 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.16 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.023

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

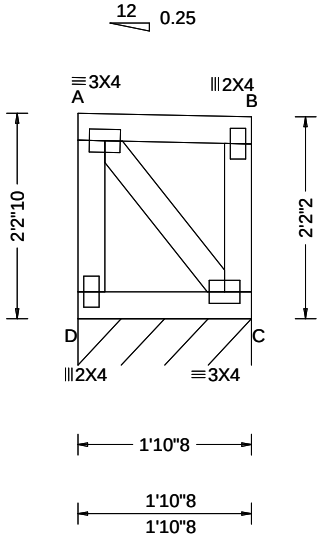
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37211 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE04	Cust: R 9316 JRef:1XfP93160003 T192 DrwNo: 140.22.1622.45090 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.20 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.024

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

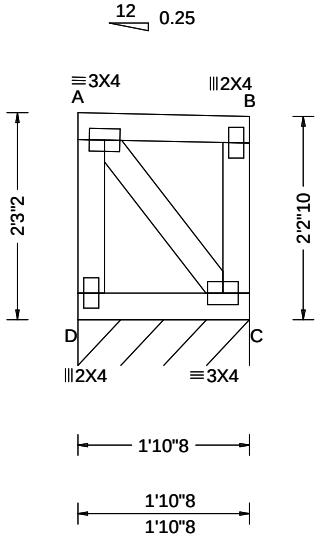
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37212 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE05	Cust: R 9316 JRef:1XfP93160003 T215 DrwNo: 140.22.1622.44011 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.24 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.025

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

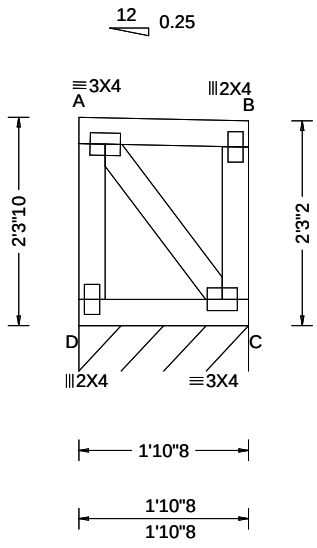
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37213 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE06	Cust: R 9316 JRef:1XfP93160003 T219 DrwNo: 140.22.1622.43760 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.28 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.026

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

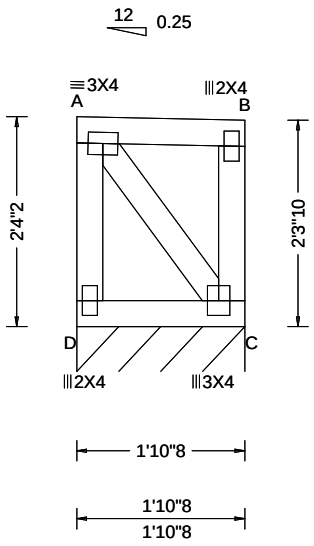
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37214 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE07	Cust: R 9316 JRef:1XfP93160003 T220 DrwNo: 140.22.1622.43756 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.32 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.027

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

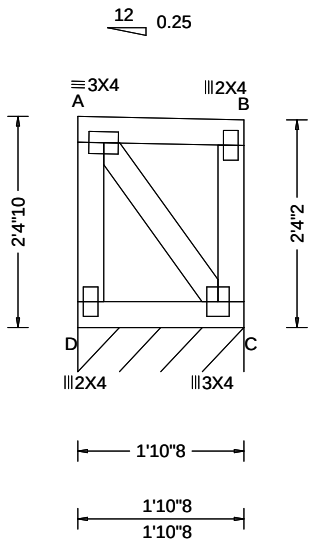
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37215 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE08	Cust: R 9316 JRef:1XfP93160003 T221 DrwNo: 140.22.1622.45195 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.028

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

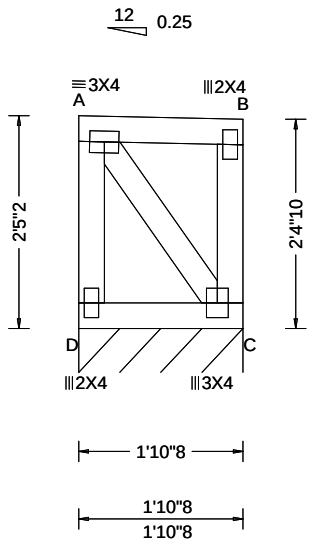
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37216 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE09	Cust: R 9316 JRef:1XfP93160003 T222 DrwNo: 140.22.1622.44721 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.41 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.029

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

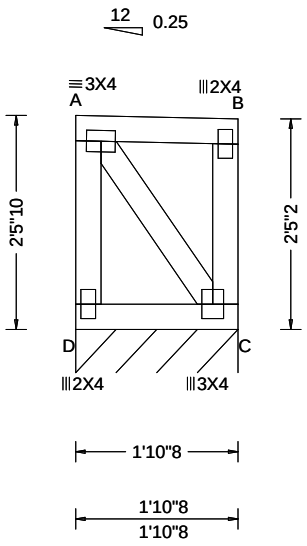
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37217 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE10	Cust: R 9316 JRef:1XfP93160003 T223 DrwNo: 140.22.1622.44589 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.45 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.031

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

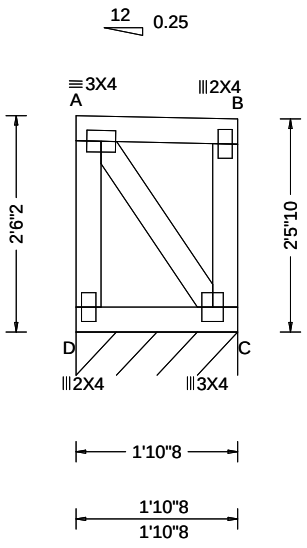
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37218 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE11	Cust: R 9316 JRef:1XfP93160003 T224 DrwNo: 140.22.1622.44541 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.49 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.032

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

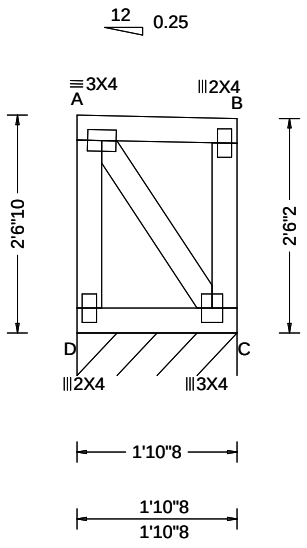
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37219 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE12	Cust: R 9316 JRef:1XfP93160003 T225 DrwNo: 140.22.1622.43815 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.033

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

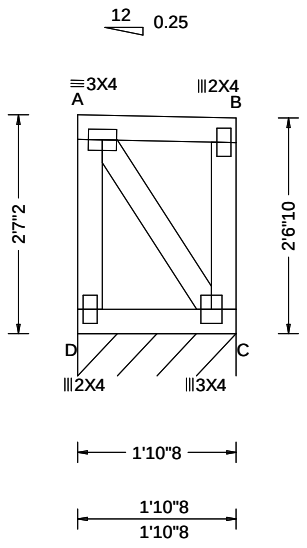
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37220 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE13	Cust: R 9316 JRef:1XfP93160003 T226 DrwNo: 140.22.1622.43759 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.57 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.035

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

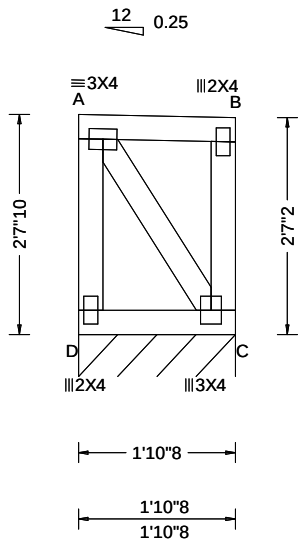
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37221 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE14	Cust: R 9316 JRef:1XfP93160003 T227 DrwNo: 140.22.1622.44232 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.62 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.036

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

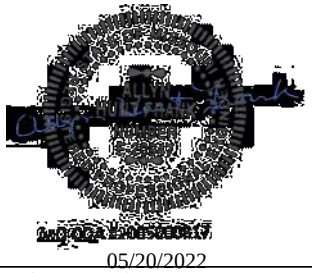
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

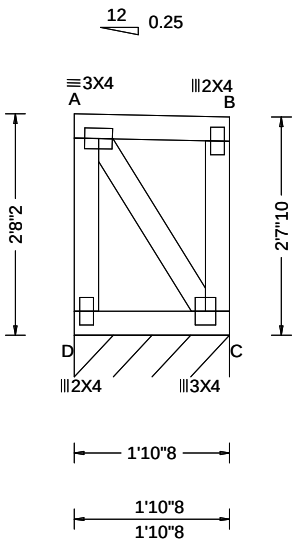
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37222 / MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE15	Cust: R 9316 JRef:1XfP93160003 T228 DrwNo: 140.22.1622.44540 / NDW 05/20/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.037 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

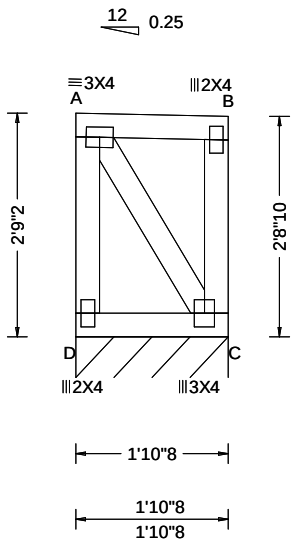
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37223 / MONO FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE16	Cust: R 9316 JRef:1XfP93160003 T251 DrwNo: 140.22.1622.44390 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.74 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.040

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

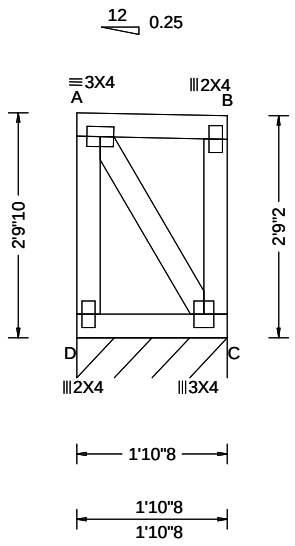
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37224 / MONO FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE17	Cust: R 9316 JRef:1XfP93160003 T252 DrwNo: 140.22.1622.44261 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.78 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.041

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

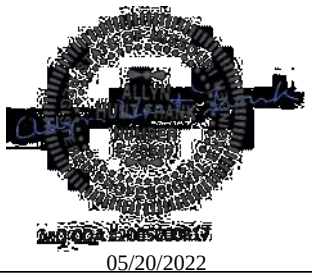
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

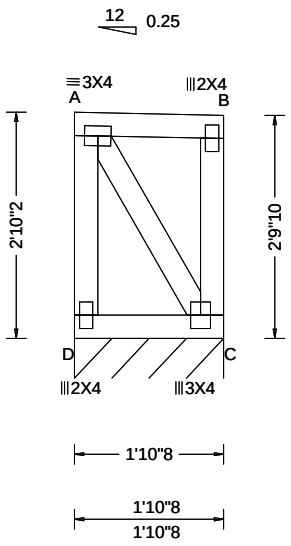
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37225 / MONO FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE18	Cust: R 9316 JRef:1XfP93160003 T253 DrwNo: 140.22.1622.43926 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.82 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

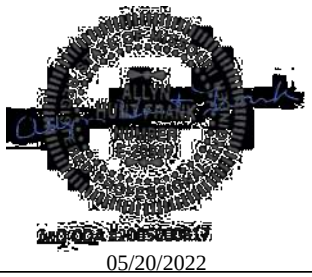
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

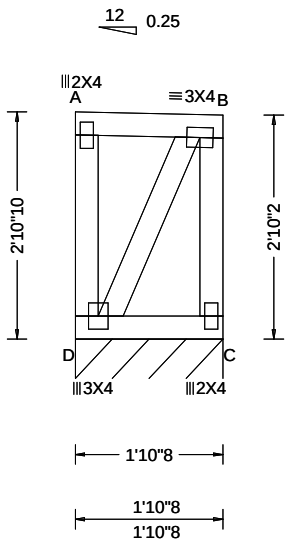
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37226 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE19	Cust: R 9316 JRef:1XfP93160003 T254 DrwNo: 140.22.1622.47228 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	-0.001 A	-	-
HORZ(TL):	0.001 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.043

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/27

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

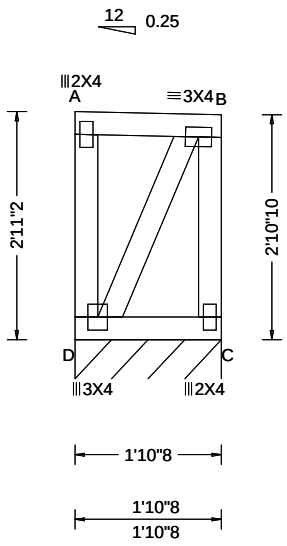
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37227 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE20	Cust: R 9316 JRef:1XfP93160003 T255 DrwNo: 140.22.1622.48204 / NDW 05/20/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.044 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

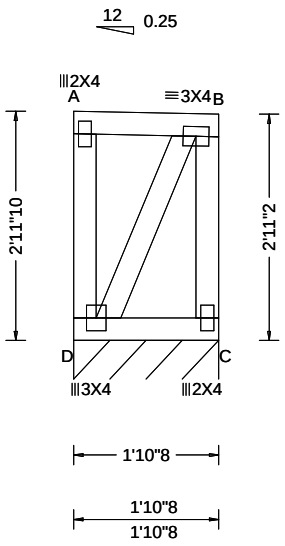
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37228 / MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE21	Cust: R 9316 JRef:1XfP93160003 T256 DrwNo: 140.22.1622.47479 / NDW 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.62 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	-0.001 A	-	-
HORZ(TL):	0.001 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.046

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

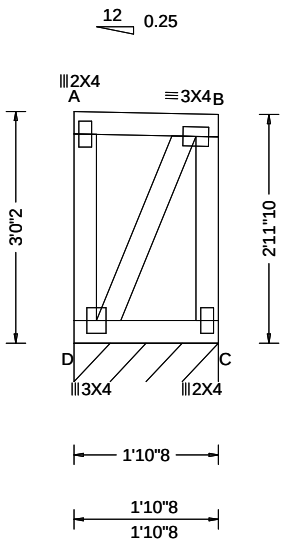
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37229 / MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE22	Cust: R 9316 JRef:1XfP93160003 T257 DrwNo: 140.22.1622.47480 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.66 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.000 B	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	-0.001 A	-	-
HORZ(TL):	0.001 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.047

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/29

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

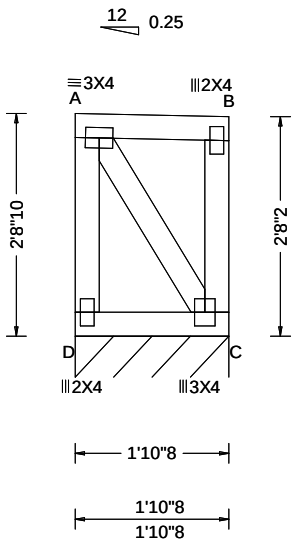
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37230 / MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE23	Cust: R 9316 JRef:1XfP93160003 T231 DrwNo: 140.22.1622.43770 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.038

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

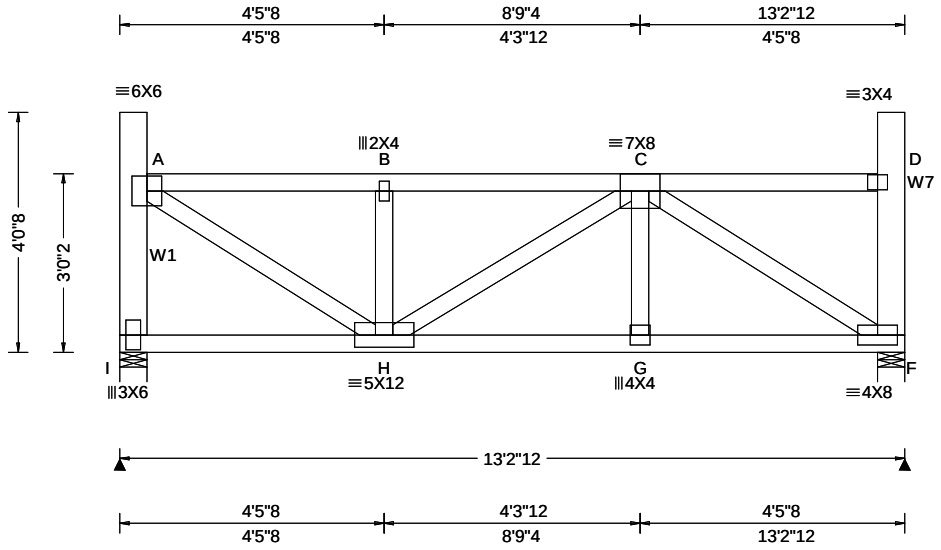
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37262 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T09	Cust: R 9316 JRef:1XfP93160003 T4 DrwNo: 140.22.1624.57520 / PPH 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.038	B	999	360
VERT(CL): 0.071	B	999	240
HORZ(LL): 0.012	A	-	-
HORZ(TL): 0.022	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.313
Max BC CSI: 0.556
Max Web CSI: 0.834

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	1464	/-	/-	/-	/190	/-
F	1371	/-	/-	/-	/170	/-

Wind reactions based on MWFRS
I Brg Wid = 5.5 Min Req = 1.9 (Truss)
F Brg Wid = 5.5 Min Req = 1.7 (Truss)
Bearings I & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	231	-1777	B - C	231	-1772

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	1747	-227	G - F	1747	-227

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - A	145	-1164	C - G	699	-111
A - H	1928	-251	C - F	259	-1991

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 60 plf at 0.00 to 60 plf at 13.23
BC: 204 lb Conc. Load at 1.17, 3.17, 5.17,11.17
BC: 183 lb Conc. Load at 7.17, 9.17

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

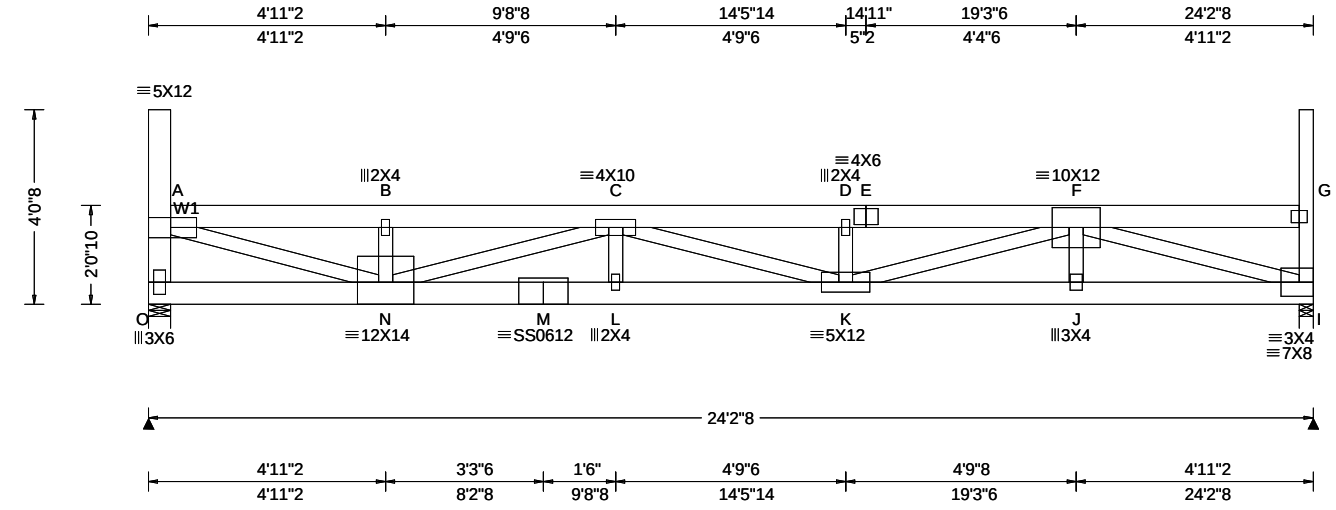
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37268 FLAT FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T16	Cust: R 9316 JRef:1XfP93160003 T5 DrwNo: 140.22.1625.02503 / PPH 05/20/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.264 D	999	360
VERT(CL):	0.491 D	591	240
HORZ(LL):	0.040 I	-	-
HORZ(TL):	0.075 I	-	-

Creep Factor: 2.0
Max TC CSI: 0.233
Max BC CSI: 0.654
Max Web CSI: 0.908

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	2490	/-	/-	/-	/400	/-
I	2497	/-	/-	/-	/407	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 2.0 (Truss)
I Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	530	- 3212	D - E	794	- 4713
B - C	529	- 3204	E - F	794	- 4713
C - D	794	- 4713			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	4707	- 787	K - J	3200	- 538
M - L	4707	- 787	J - I	3200	- 538
L - K	4707	- 787			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	177	- 1111	K - F	1594	- 270
A - N	3175	- 524	F - I	558	- 3319
N - C	272	- 1585			

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 23.92
BC: From 60 plf at 0.00 to 60 plf at 24.21
BC: 173 lb Conc. Load at 2.06,10.06,12.06,14.06 16.06,20.06,22.06
BC: 170 lb Conc. Load at 4.06, 6.06, 8.06,18.06

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.99	34.38	4.14
23.92	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

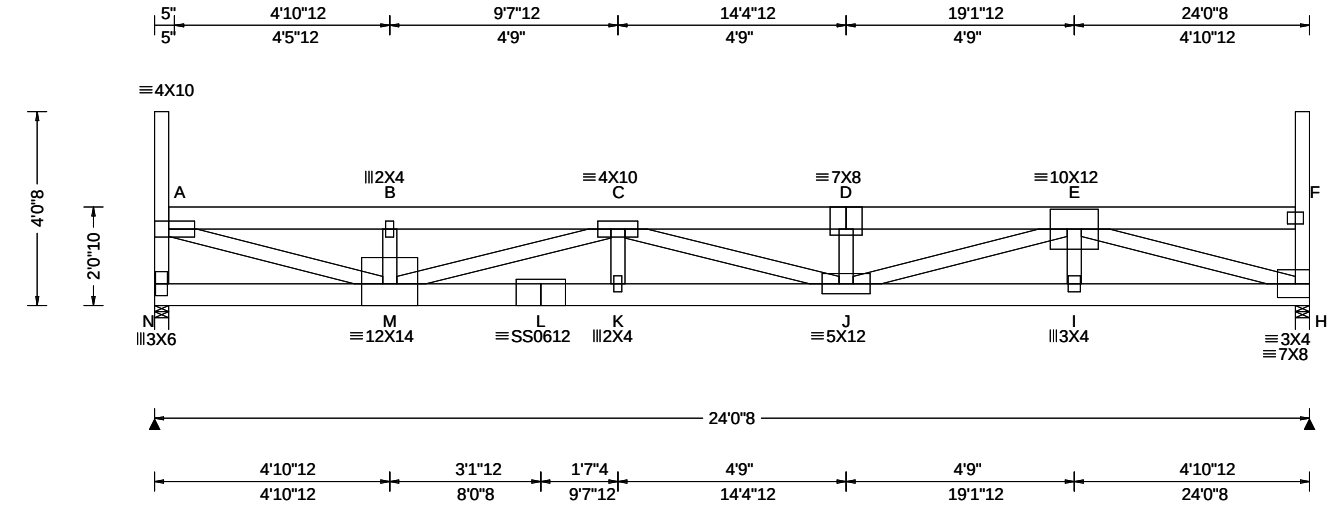
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37265 FLAT FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T32	Cust: R 9316 JRef:1XfP93160003 T8 DrwNo: 140.22.1625.04457 / PPH 05/20/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.258 D	999	360
VERT(CL):	0.480 D	601	240
HORZ(LL):	0.039 H	-	-
HORZ(TL):	0.073 H	-	-

Creep Factor: 2.0
Max TC CSI: 0.228
Max BC CSI: 0.646
Max Web CSI: 0.892

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	2499	/-	/-	/-	/408	/-
H	2480	/-	/-	/-	/407	/-

Wind reactions based on MWFRS
N Brg Wid = 3.5 Min Req = 2.0 (Truss)
H Brg Wid = 3.5 Min Req = 1.9 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	533	- 3180	C - D	792	- 4651
B - C	532	- 3172	D - E	792	- 4651

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	4650	- 790	J - I	3159	- 535
L - K	4650	- 790	I - H	3159	- 535
K - J	4650	- 790			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	181	- 1116	J - E	1574	- 271
A - M	3203	- 538	E - H	556	- 3279
M - C	272	- 1559			

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 23.75
BC: From 60 plf at 0.00 to 60 plf at 24.04
BC: 173 lb Conc. Load at 1.90, 7.90, 9.90,11.90 13.90,15.90,19.90,21.90
BC: 170 lb Conc. Load at 3.90, 5.90,17.90

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.99	34.38	4.14
23.75	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

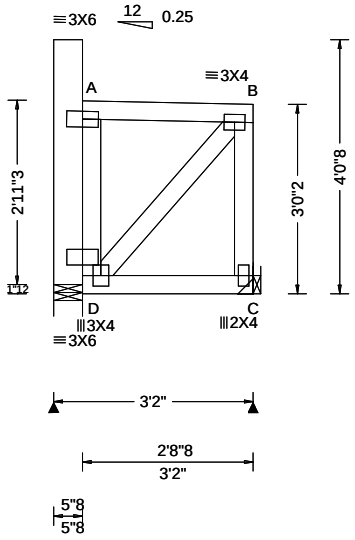
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37259 MONO FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48A	Cust: R 9316 JRef:1XfP93160003 T14 DrwNo: 140.22.1625.06490 / PPH 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.71 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	D	999	360
VERT(CL): 0.001	D	999	240
HORZ(LL): 0.002	A	-	-
HORZ(TL): 0.002	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.120
Max BC CSI: 0.103
Max Web CSI: 0.057

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	170	/-	/-	/107	/55	/81
C	183	/-	/-	/139	/46	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Lt Bearing Leg: 2x4 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11639.51" if used)

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

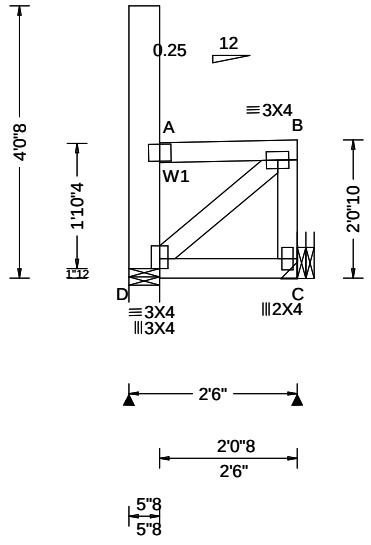
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 37159 / MONO FROM:	Ply: 1 Qty: 17	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02A	Cust: R 9316 JRef:1XfP93160003 T12 DrwNo: 140.22.1622.46957 / NDW 05/20/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.102
Max BC CSI: 0.079
Max Web CSI: 0.106

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	122	/-	/-	/98	/76	/62
C	170	/-	/-	/145	/56	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

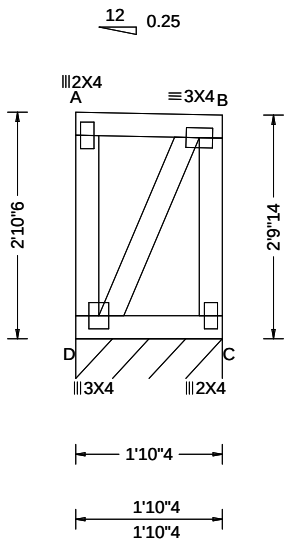
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37231 / MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE24	Cust: R 9316 JRef:1XfP93160003 T13 DrwNo: 140.22.1622.47570 / NDW 05/20/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.052 Max BC CSI: 0.045 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/27

Wind reactions based on MWFRS
C Brg Wid = 22.2 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

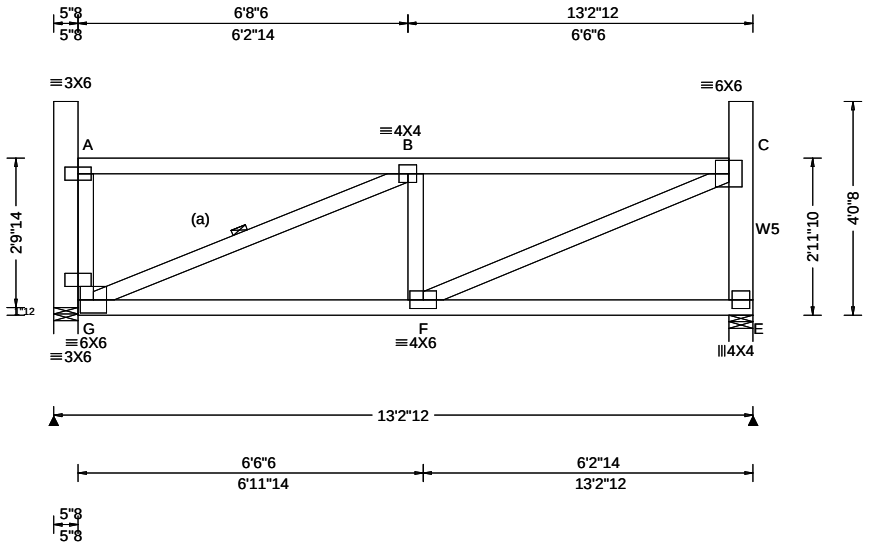
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37167 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T08A	Cust: R 9316 JRef:1XfP93160003 T10 DrwNo: 140.22.1625.39033 / PPH 05/20/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.036 B	999	360
VERT(CL):	0.067 B	999	240
HORZ(LL):	0.007 E	-	-
HORZ(TL):	0.013 E	-	-

Creep Factor: 2.0
Max TC CSI: 0.705
Max BC CSI: 0.887
Max Web CSI: 0.297

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	823	/-	/-	/395	/51	/79
E	805	/-	/-	/382	/48	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Support)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	99	- 1198

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	1195	- 107

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	655	- 22	F - C	1198	- 100
G - A	51	- 824	C - E	63	- 651
G - B	94	- 1265			

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W5 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Blocking
Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11965.47" if used)

Additional Notes
Truss must be installed as shown with top chord up.

05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Gable Stud Reinforcement Detail
ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 "L" Brace * Group A	(1) 1x4 "L" Brace * Group B	(1) 2x4 "L" Brace * Group A	(1) 2x4 "L" Brace * Group B	(2) 2x4 "L" Brace ** Group A	(2) 2x4 "L" Brace ** Group B	(1) 2x6 "L" Brace * Group A	(1) 2x6 "L" Brace * Group B	(2) 2x6 "L" Brace ** Group A	(2) 2x6 "L" Brace ** Group B
24" o.c.	SPF HF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"
16" o.c.	SPF HF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

Attach "L" braces with 10d (0.128"x3.0" min) nails.

* For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

"L" bracing must be a minimum of 80% of web member length.

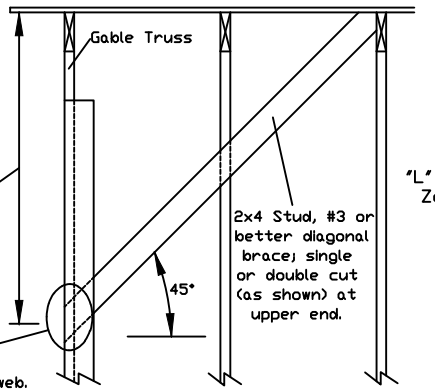
Gable Vertical Plate Sizes

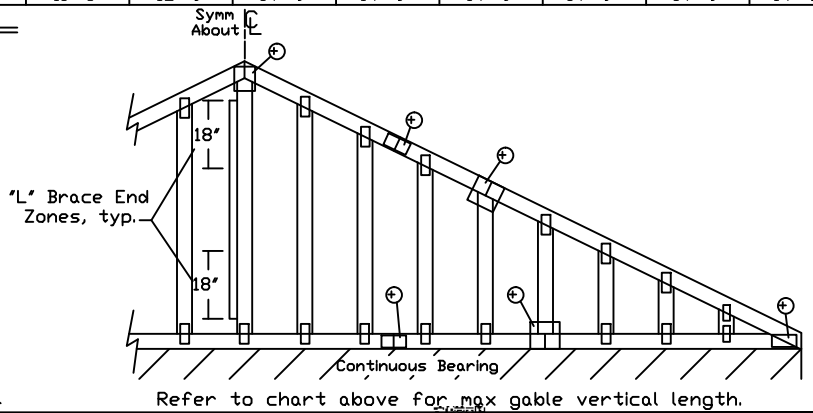
Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 355# at each end. Max web total length is 14'.





Refer to chart above for max gable vertical length.

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

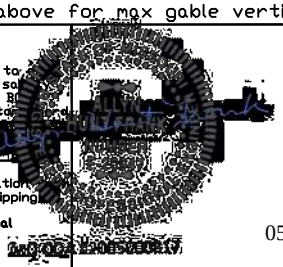
WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT: FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for sa practices prior to performing these functions. Installers shall provide temporary bracing per B Unless noted otherwise, top chord shall have properly attached structural sheathing and botta shall have a properly attached rigid ceiling. Locations shown for permanent lateral restrai shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



05/20/2022

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-16-GAB11530
DATE 01/26/2018
DRWG A11530ENC160118

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforecement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

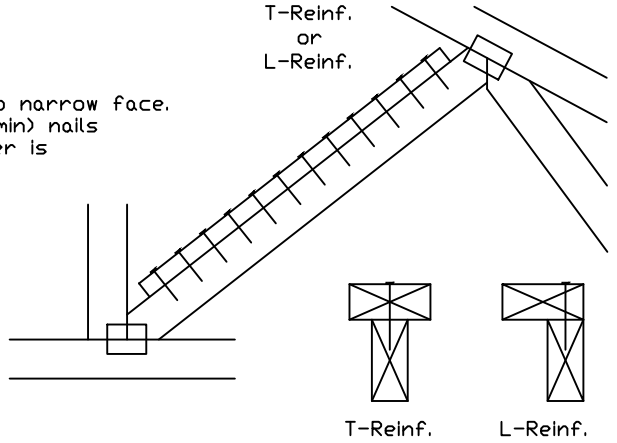
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Alternative Reinforecement Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

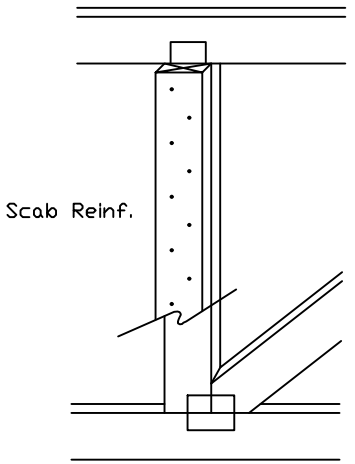
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for sa practices prior to performing these functions. Installers shall provide temporary bracing per B Unless noted otherwise, top chord shall have properly attached structural sheathing and botta shall have a properly attached rigid ceiling. Locations shown for permanent lateral restrai shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

05/20/2022

TC LL	PSF	
TC DL	PSF	
BC DL	PSF	
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

REF	CLR Subst.
DATE	01/02/19
DRWG	BRCLBSUB0119

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for sa practices prior to performing these functions. Installers shall provide temporary bracing per B Unless noted otherwise, top chord shall have properly attached structural sheathing and botta shall have a properly attached rigid ceiling. Locations shown for permanent lateral restrai shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

05/20/2022

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C
Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail for lumber, plates, and other information not shown on this detail.

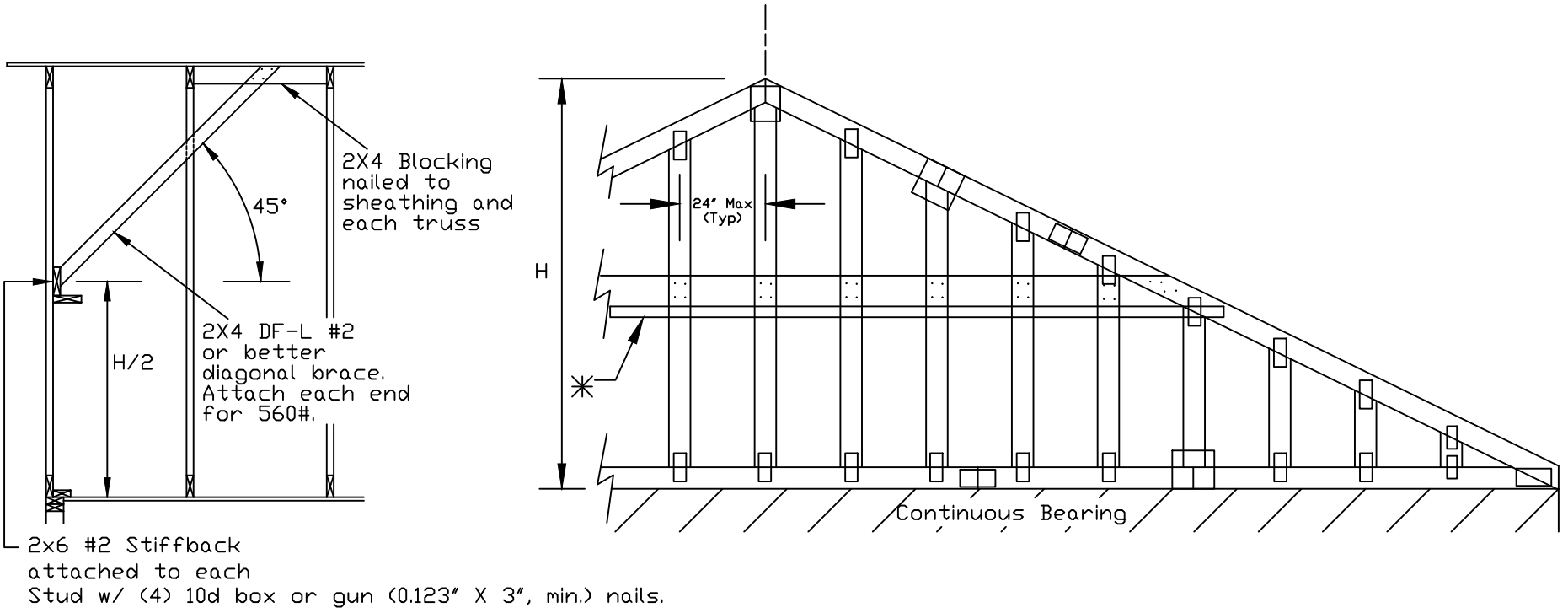
Nails: 10d box or gun (0.128"x3",min) nails.

H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback to roof diaphragm every 6'0" (see detail below or refer to DRWG A12030ENC160118).

H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace to roof diaphragm every 4'0" (see detail below or refer to DRWG A12030ENC160118).

✳ Optional 2x L-reinforcement attached to stiffback with 10d box or gun (0.128" x 3", min.) nails @ 6" o.c.



ALPINE
AN ITW COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to, follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for sa practices prior to performing these functions. Installers shall provide temporary bracing per B Unless noted otherwise, top chord shall have properly attached structural sheathing and botta shall have a properly attached rigid ceiling. Locations shown for permanent lateral restrai shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

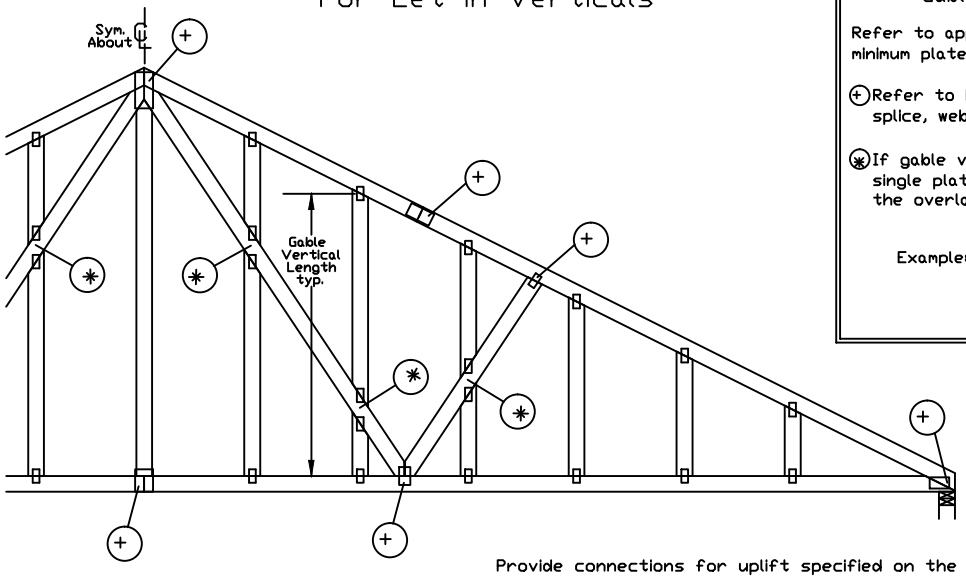
05/20/2022

MAX. TOT. LD. 60 PSF

MAX. SPACING

REF	GE WHALER
DATE	01/02/2018
DRWG	GABRST160118

Gable Detail
For Let-in Verticals



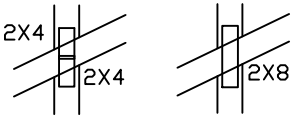
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

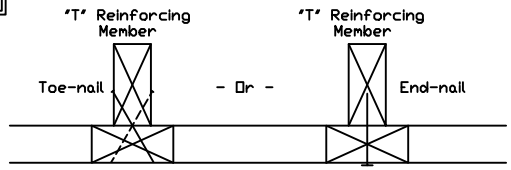
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊛ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



"T" Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:
10d Common (0.148"x 3.",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

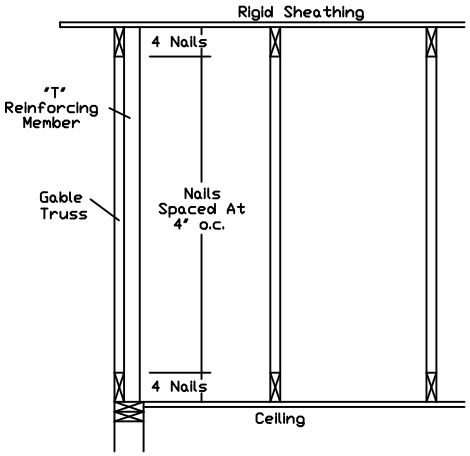
Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24"o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for sa practices prior to performing these functions. Installers shall provide temporary bracing per B Unless noted otherwise, top chord shall have properly attached structural sheathing and botta shall have a properly attached rigid ceiling. Locations shown for permanent lateral restrai shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

05/20/2022

MAX. TOT. LD. 60 PSF
DUR. FAC. ANY
MAX. SPACING 24.0"

REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118

B D C

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 13 Truss	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

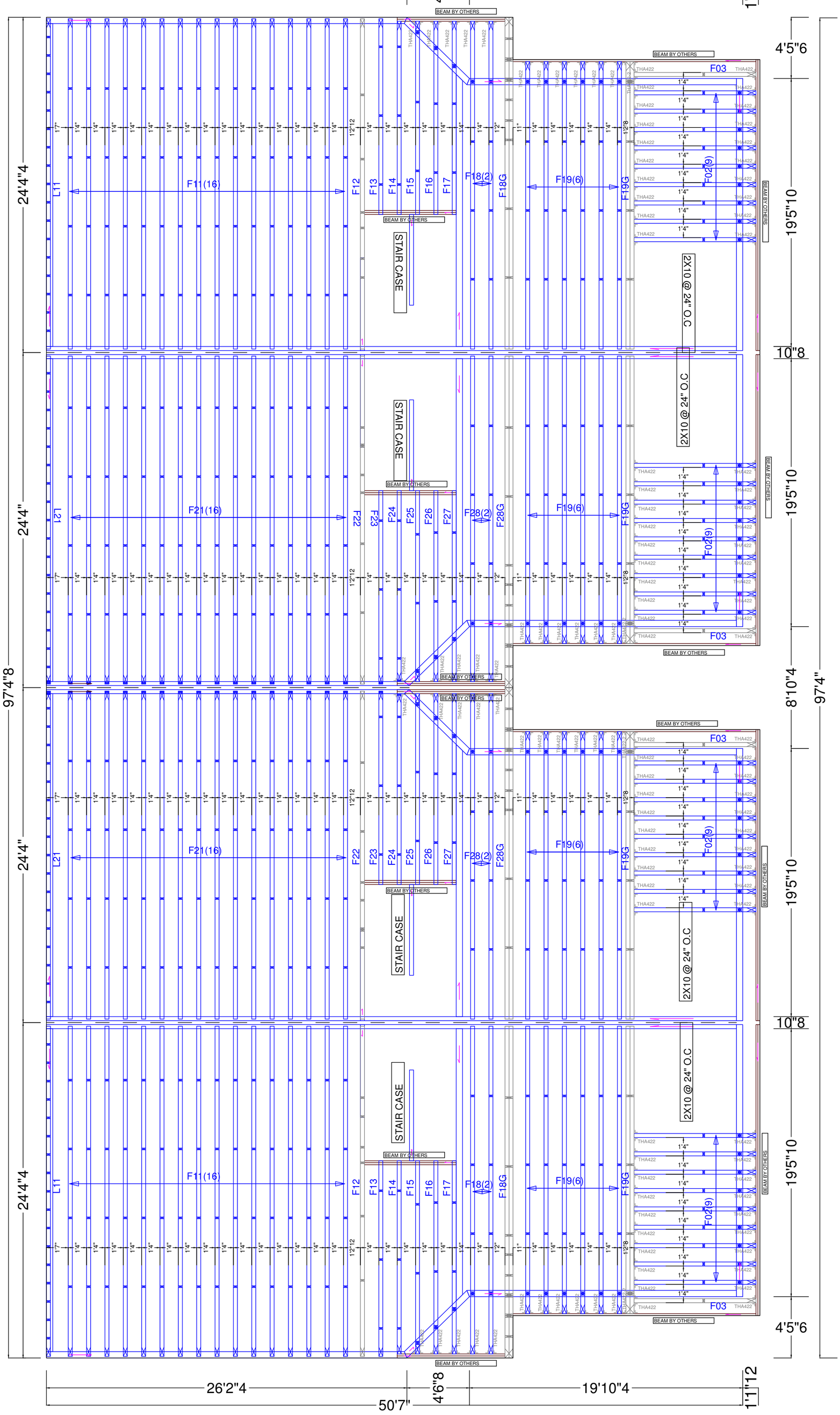
Group 13 Floor Layout

Total Truss Quantity = 180.

Total Plan Area with OHs = 4292 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
=	THA422	126	Simpson
=	THA422-2	4	Simpson



SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 BY: CB

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 8/12/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

mill Creek
3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-6108

Job Name: McCambridge Brothers Construction

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Designer: Juan R Quiroz

Reference #: JB-220697

Date: 3/17/2022

Address:
2100 NW Lowenstein Dr
Lee's Summit
MO

Building 13

Alpine, an ITW company
514 Earth City Expressway
Suite 242
Earth City, MO 63045
Phone: (800)326-4102 (314)344-9121
alpineitw.com

03/17/2022

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 8/12/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED. REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 *BY:* CB

Site Information:	**Page 1:**
Customer: Mill Creek Truss	*Job Number:* JB-220697
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1XdX93160012
Wind Standard: ASCE716 *Wind Speed (mph):* 0 *Building Type:*	*Design Loading (psf):* 75.00

This package contains general notes pages, 24 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	076.22.1330.02386	F02
3	076.22.1330.05201	F11
5	076.22.1330.04336	F13
7	076.22.1330.04058	F15
9	076.22.1330.05362	F17
11	076.22.1330.05097	F18G
13	076.22.1330.11961	F19G
15	076.22.1330.05301	F22
17	076.22.1330.02481	F24
19	076.22.1330.02534	F26
21	076.22.1330.02479	F28
23	076.22.1330.04217	L11
25	CNSY42PL0118	
27	LSCSYX2A1014	

Item	Drawing Number	Truss
2	076.22.1330.04075	F03
4	076.22.1330.04191	F12
6	076.22.1330.03427	F14
8	076.22.1330.05054	F16
10	076.22.1330.02480	F18
12	076.22.1330.11968	F19
14	076.22.1330.02456	F21
16	076.22.1330.03810	F23
18	076.22.1330.04335	F25
20	076.22.1330.02483	F27
22	076.22.1330.02482	F28G
24	076.22.1330.04838	L21
26	DEFLCAMB1014	
28	STRBRIBR1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

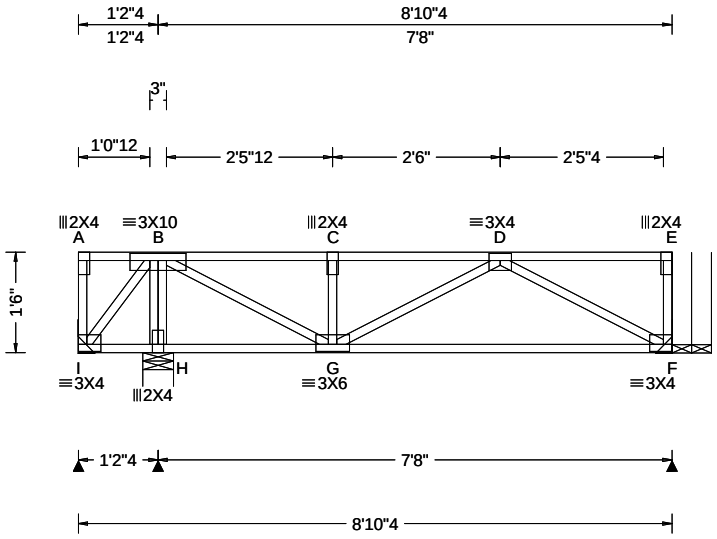
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 13

SEQN: 11842 / SY42 FROM:	Ply: 1 Qty: 36	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F02	Cust: R 9316 JRef:1XdX93160012 T6 DrwNo: 076.22.1330.02386 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.018	C	999	480
VERT(CL): 0.034	C	999	360
HORZ(LL): 0.002	F	-	-
HORZ(TL): 0.004	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.299
Max BC CSI: 0.301
Max Web CSI: 0.162

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	28	/-43	/-	/-	/-	/-
H	525	/-	/-	/-	/-	/-
F	372	/-	/-	/-	/-	/-

I Brg Wid = - Min Req = -
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
F Brg Wid = - Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-485	C - D	0	-485

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	473	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - H	0	-499	D - F	0	-537
B - G	576	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

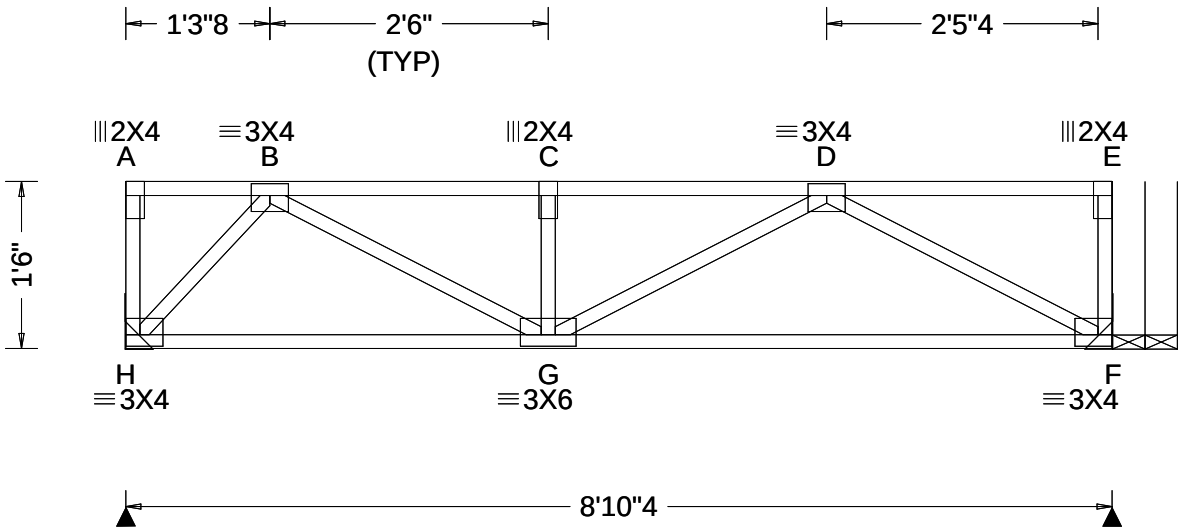
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11844 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F03	Cust: R 9316 JRef:1XdX93160012 T7 / DrwNo: 076.22.1330.04075 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.024	C	999	480
VERT(CL): 0.046	C	999	360
HORZ(LL): 0.004	B	-	-
HORZ(TL): 0.008	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.298
Max BC CSI: 0.324
Max Web CSI: 0.141

VIEW Ver: 21.02.00.1005.17

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	443	/-	/-	/-	/-	/-
F	443	/-	/-	/-	/-	/-

H Brg Wid = - Min Req = -
F Brg Wid = - Min Req = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-747	C - D	0	-747

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	606	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - B	0	-546	D - F	0	-687
B - G	426	0			

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

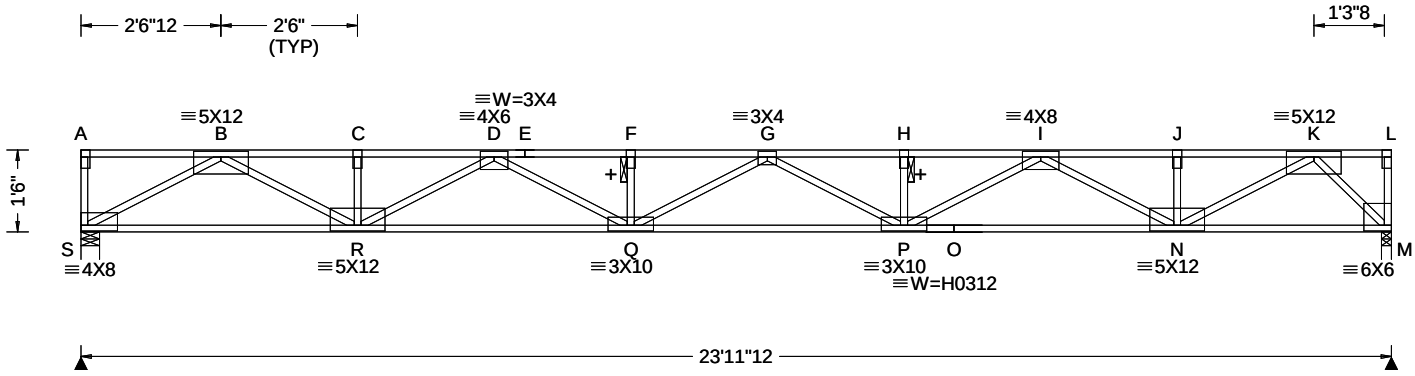
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11846 / SY42 FROM:	Ply: 1 Qty: 32	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F11	Cust: R 9316 JRef:1XdX93160012 T28 / DrwNo: 076.22.1330.05201 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.414	G	695	480
VERT(CL): 0.775	G	371	360
HORZ(LL): 0.057	M	-	-
HORZ(TL): 0.107	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.398
Max BC CSI: 0.672
Max Web CSI: 0.551

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	1199	/-	/-	/-	/-	/-
M	1199	/-	/-	/-	/-	/-

S Brg Wid = 4.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3522	G - H	0	-4917
C - D	0	-3522	H - I	0	-4917
D - E	0	-5123	I - J	0	-2895
E - F	0	-5123	J - K	0	-2895
F - G	0	-5123			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	2010	0	P - O	4106	0
R - Q	4523	0	O - N	4106	0
Q - P	5219	0	N - M	1183	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2281	P - I	925	0
B - R	1725	0	I - N	0	-1382
R - D	0	-1143	N - K	1954	0
D - Q	684	0	K - M	0	-1648

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

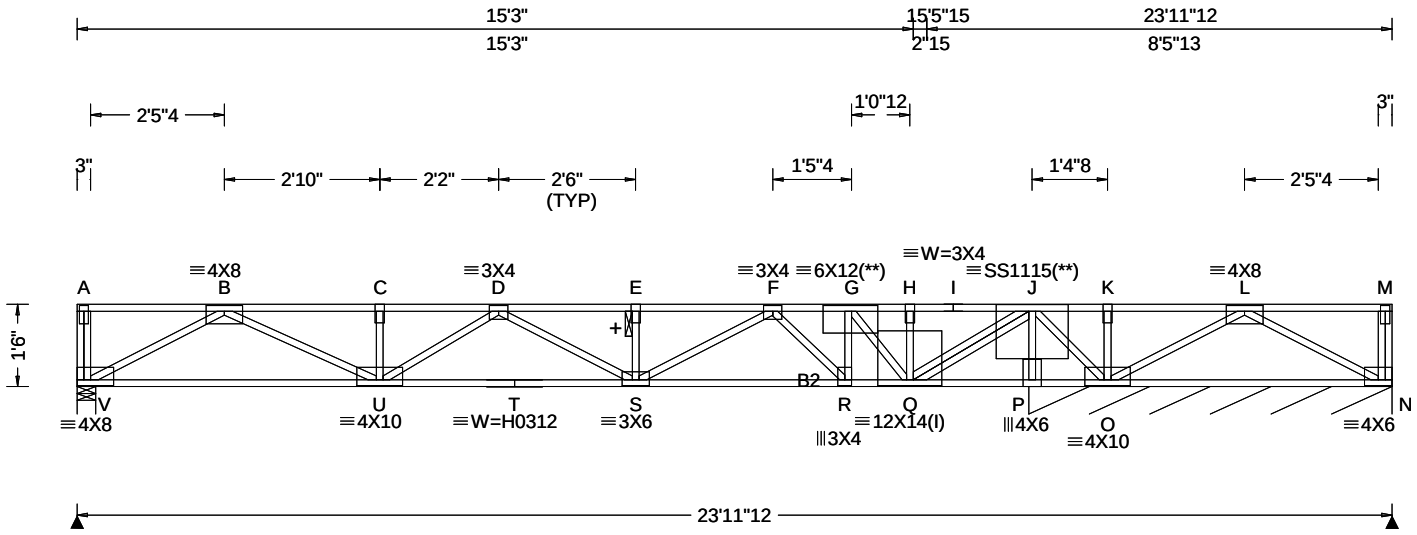
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11848 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F12	Cust: R 9316 JRef:1XdX93160012 T1 / DrwNo: 076.22.1330.04191 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.201 E	999	480
VERT(CL):	0.377 E	545	360
HORZ(LL):	0.029 B	-	-
HORZ(TL):	0.054 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.946
Max BC CSI: 0.960
Max Web CSI: 0.568

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	443	/-	/-	/-	/-	/-
N		/-304				

V Brg Wid = 4.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2615	G - H	0	-818
C - D	0	-2615	H - I	0	-818
D - E	0	-3202	I - J	0	-818
E - F	0	-3202	J - K	2031	0
F - G	0	-2426	K - L	2031	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1461	0	R - Q	2382	0
U - T	3059	0	Q - P	0	-2607
T - S	3059	0	P - O	0	-2607
S - R	2851	0	O - N	0	-784

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1680	G - Q	0	-2558
B - U	1283	0	Q - J	4025	0
U - D	0	-526	J - P	0	-2889
S - F	401	0	J - O	816	0
F - R	0	-615	O - L	0	-1423
R - G	488	0	L - N	897	0

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.98
BC: From 13 plf at 0.00 to 13 plf at 23.98
TC: 1500 lb Conc. Load at 14.06

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

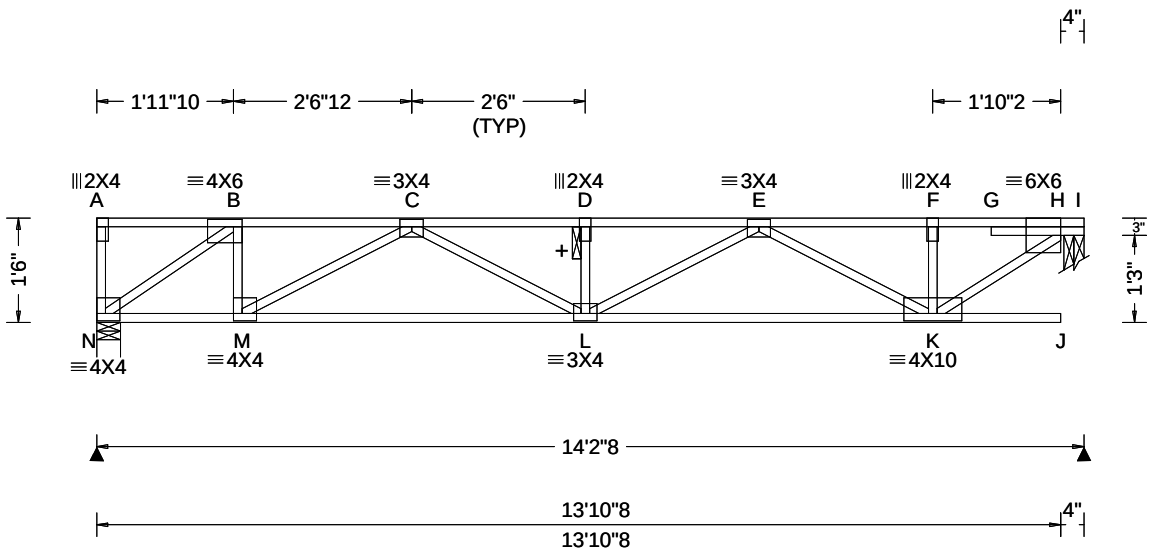
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11850 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F13	Cust: R 9316 JRef:1XdX93160012 T23 / DrwNo: 076.22.1330.04336 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.096	D	999	480
VERT(CL): 0.179	D	942	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.030	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.620
Max BC CSI: 0.537
Max Web CSI: 0.329

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	702	/-	/-		/-	/-	/-
H	714	/-	/-		/-	/-	/-

N Brg Wid = 4.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-943	E - F	0	-943
C - D	0	-1836	F - H	0	-942
D - E	0	-1836			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	905	0	L - K	1574	0
M - L	1582	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1104	E - K	0	-721
B - M	416	0	K - H	1166	0
M - C	0	-734			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

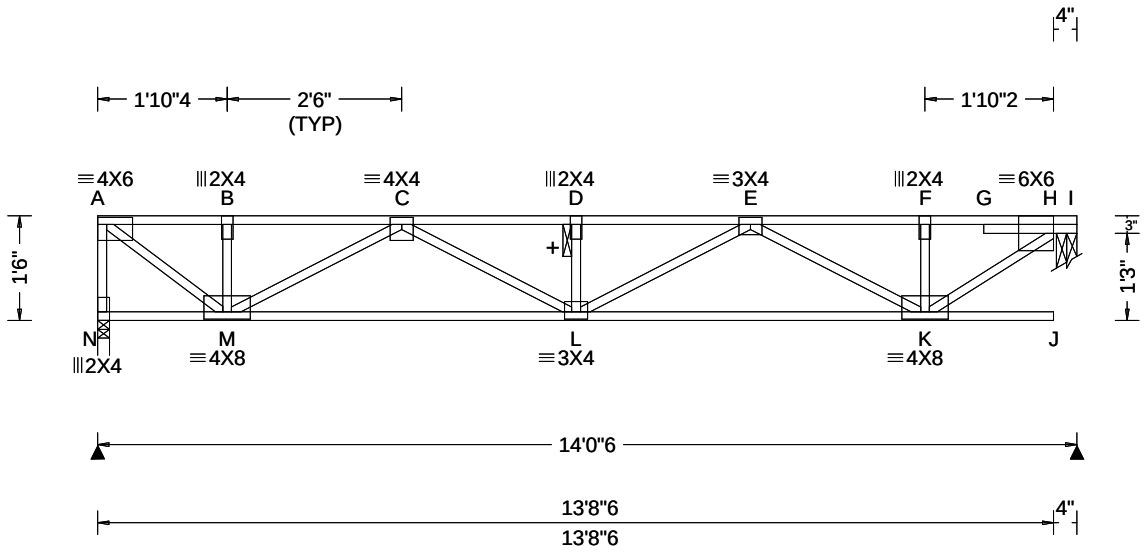
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11852 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F14	Cust: R 9316 JRef:1XdX93160012 T15 / DrwNo: 076.22.1330.03427 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.093	D	999	480
VERT(CL): 0.174	D	955	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.612
Max BC CSI: 0.524
Max Web CSI: 0.324

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
N	693	/-	/-	/-	/-	/-
H	706	/-	/-	/-	/-	/-

N Brg Wid = 2.0 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-849	D - E	0	-1791
B - C	0	-849	E - F	0	-929
C - D	0	-1791	F - H	0	-929

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1520	0	L - K	1546	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-690	E - K	0	-703
A - M	1057	0	K - H	1150	0
M - C	0	-766			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

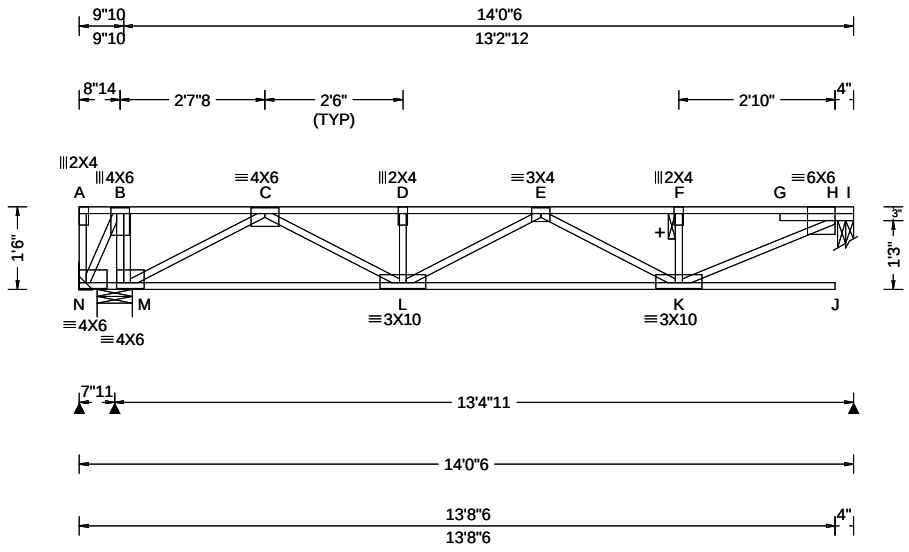
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11854 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F15	Cust: R 9316 JRef:1XdX93160012 T26 / DrwNo: 076.22.1330.04058 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.200	J	780	480
VERT(CL): 0.320	J	487	360
HORZ(LL): 0.011	C	-	-
HORZ(TL): 0.020	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.961
Max BC CSI: 0.588
Max Web CSI: 0.339

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-708	/-	/-	/-	/-
N	1480	/-	/-	/-	/-	/-
H	618	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
N Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	400	0	E - F	0	-1087
C - D	0	-1207	F - H	0	-1088
D - E	0	-1207			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	600	0	L - K	1318	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	685	0	C - L	693	0
B - M	0	-840	K - H	1201	0
M - C	0	-1141			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -708# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

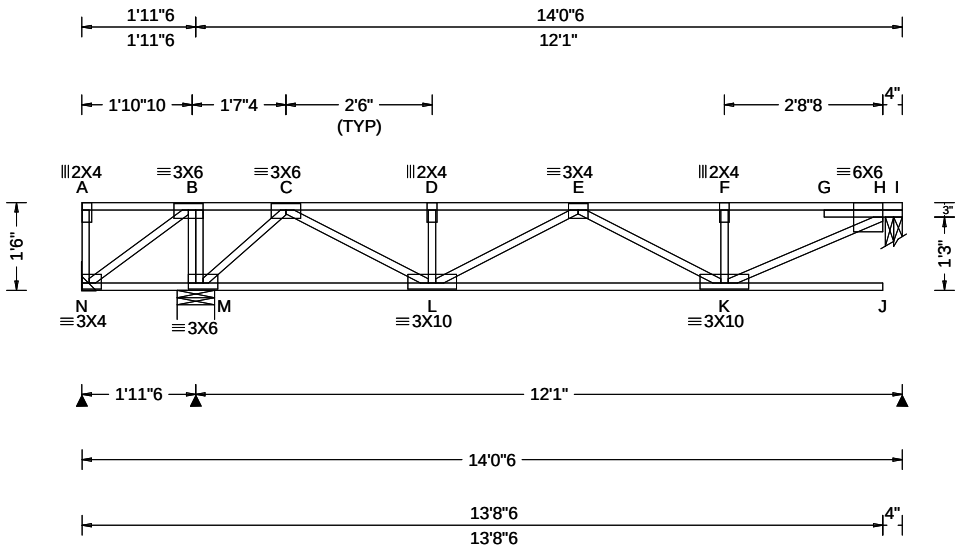
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11856 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F16	Cust: R 9316 JRef:1XdX93160012 T33 / DrwNo: 076.22.1330.05054 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.159 J	897	480
VERT(CL):	0.249 J	570	360
HORZ(LL):	0.007 C	-	-
HORZ(TL):	0.013 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.283

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-323	/-	/-	/-	/-
M	1131	/-	/-	/-	/-	/-
I	547	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	511	0	E - F	0	-901
C - D	0	-818	F - H	0	-903
D - E	0	-818			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-469	L - K	1034	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	580	0	C - L	816	0
B - M	0	-512	K - H	1004	0
M - C	0	-842			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

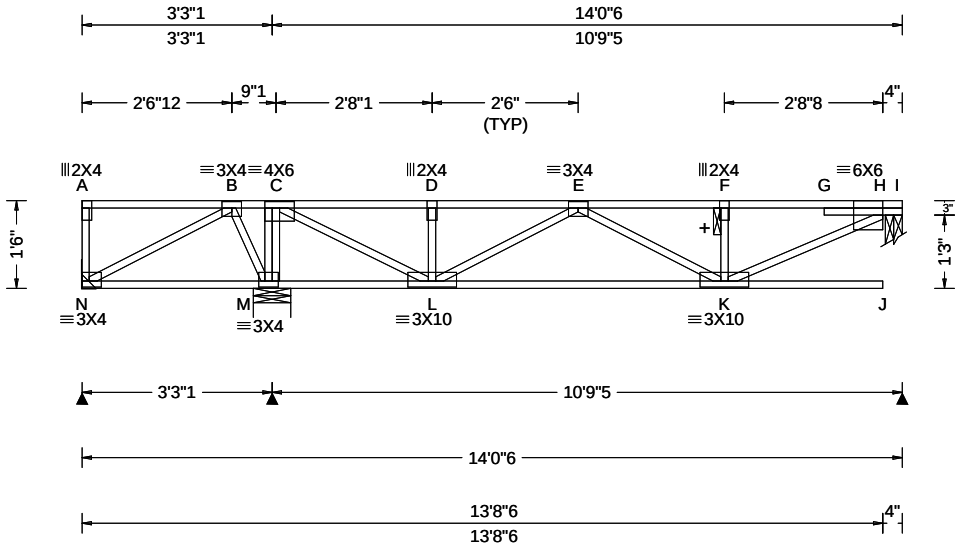
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11858 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F17	Cust: R 9316 JRef:1XdX93160012 T20 / DrwNo: 076.22.1330.05362 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	870	480
VERT(CL): 0.233	J	550	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.749
Max BC CSI: 0.437
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	57	/-122	/-	/-	/-	/-
M	959	/-	/-	/-	/-	/-
I	491	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	423	0	E - F	0	- 784
C - D	0	- 500	F - H	0	- 785
D - E	0	- 500			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	818	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	- 627	K - H	874	0
C - L	963	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

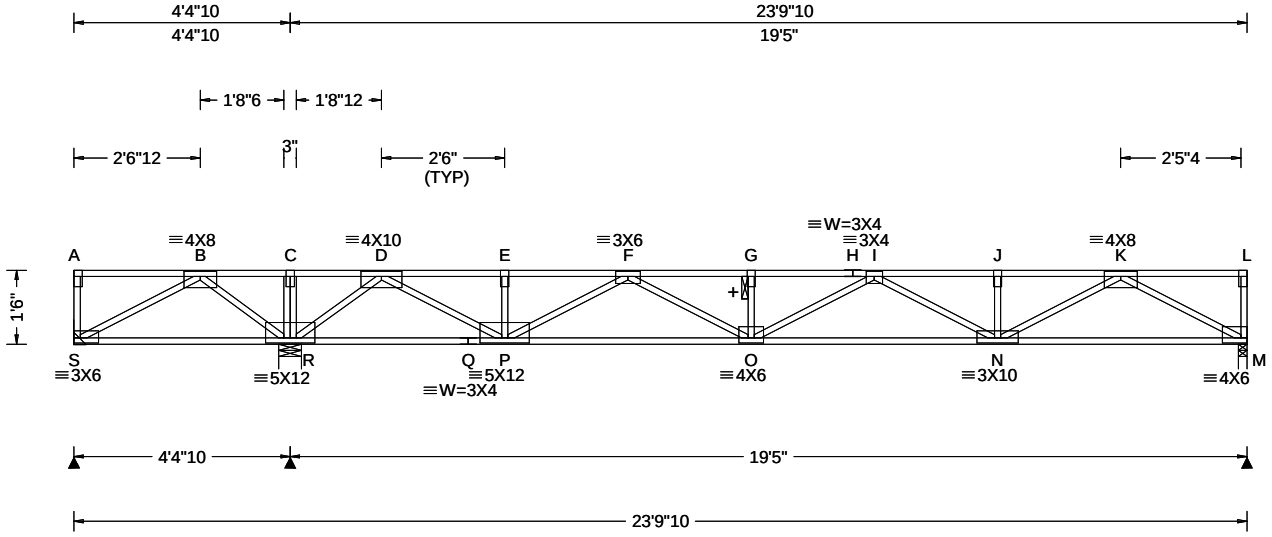
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11860 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18	Cust: R 9316 JRef:1XdX93160012 T16 / DrwNo: 076.22.1330.02480 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	G	999	480
VERT(CL): 0.371	G	628	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.796
Max Web CSI: 0.466

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	-	/-458	/-	/-	/-	/-
R	1886	/-	/-	/-	/-	/-
M	844	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1750	0	G - H	0	- 2537
C - D	1750	0	H - I	0	- 2537
D - E	0	- 1040	I - J	0	- 2220
E - F	0	- 1040	J - K	0	- 2220
F - G	0	- 2537			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	- 955	P - O	1987	0
R - Q	0	- 427	O - N	2580	0
Q - P	0	- 427	N - M	1352	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1084	0	F - O	631	0
B - R	0	- 1117	I - N	0	- 411
R - D	0	- 1648	N - K	991	0
D - P	1653	0	K - M	0	- 1535
P - F	0	- 1085			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -458# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

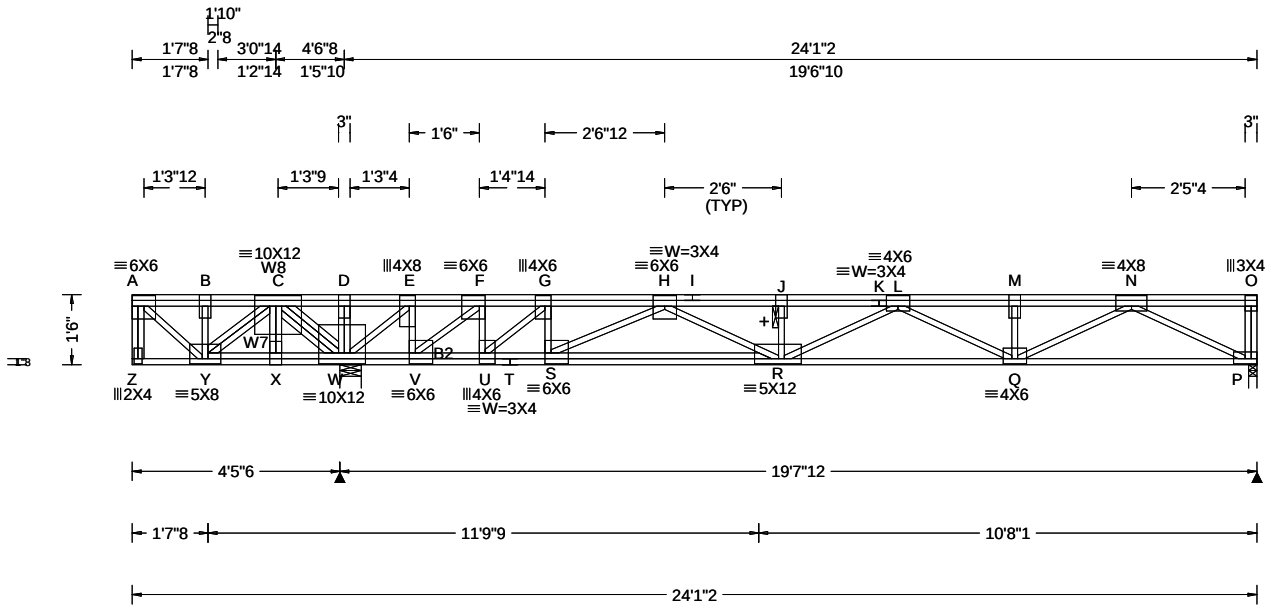
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11862 / SY42 FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18G	Cust: R 9316 JRef:1XdX93160012 T17 / DrwNo: 076.22.1330.05097 / NDW 03/17/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.124	Z	435	480
VERT(CL): 0.263	Z	204	360
HORZ(LL): -0.027	A	-	-
HORZ(TL): 0.058	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.885
Max BC CSI: 0.247
Max Web CSI: 0.249

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	8317	/-	/-	/-	/-	/-
P	962	/-165	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	420	0	H - I	1554	-1705
B - C	420	0	I - J	1554	-1705
C - D	4753	0	J - K	1551	-1711
D - E	4749	0	K - L	1551	-1711
E - F	4209	-367	L - M	534	-1347
F - G	3615	-827	M - N	534	-1347
G - H	3087	-1193			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	-1228	T - S	1169	-3130
X - W	0	-1219	S - R	1563	-2265
W - V	329	-4254	R - Q	1631	-993
V - U	793	-3663	Q - P	784	-222
U - T	1169	-3130			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	-548	G - S	539	0
Y - C	1053	0	S - H	0	-1139
C - W	0	-4787	H - R	869	0
W - E	0	-999	R - L	89	-626
E - V	636	0	L - Q	518	-321
V - F	0	-1035	Q - N	636	-353
F - U	652	0	N - P	250	-860
U - G	0	-919			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7,W8 4x2 DF-L 2400f-2.0E;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes

All plates are 3X6 except as noted.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

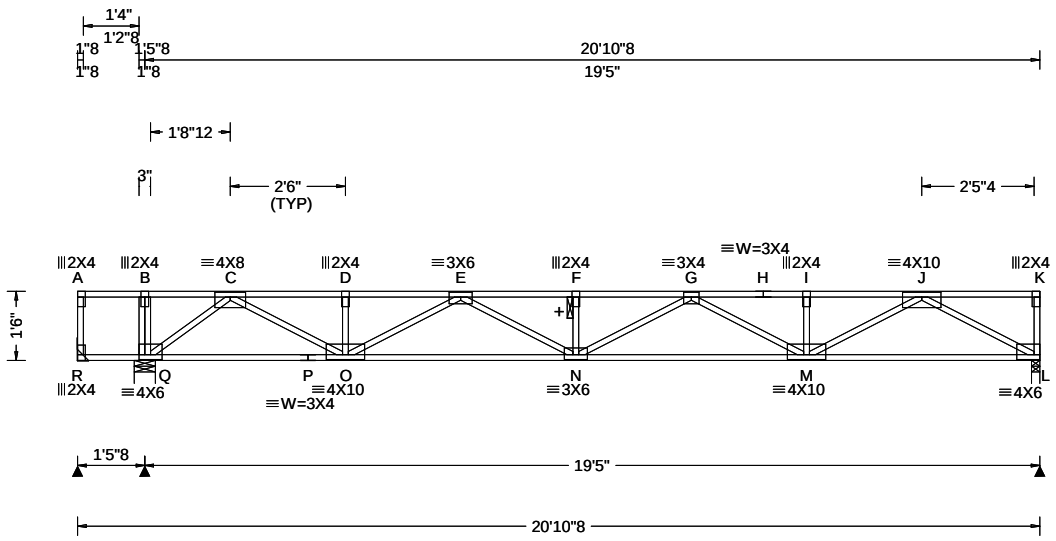
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 9758 / SY42 FROM:	Ply: 1 Qty: 24	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19	Cust: R 9316 JRef:1XdX93160012 T34 / DrwNo: 076.22.1330.11968 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.246	F	943	480
VERT(CL): 0.462	F	502	360
HORZ(LL): 0.038	L	-	-
HORZ(TL): 0.072	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.485
Max BC CSI: 0.960
Max Web CSI: 0.397

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	27	/-42	/-	/-	/-	/-
Q	1134	/-	/-	/-	/-	/-
L	962	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-2320	G - H	0	-2651
D - E	0	-2320	H - I	0	-2651
E - F	0	-3393	I - J	0	-2651
F - G	0	-3393			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1089	0	N - M	3224	0
P - O	1089	0	M - L	1570	0
O - N	3055	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - C	0	-1383	G - M	0	-654
C - O	1407	0	M - J	1233	0
O - E	0	-839	J - L	0	-1782
E - N	387	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

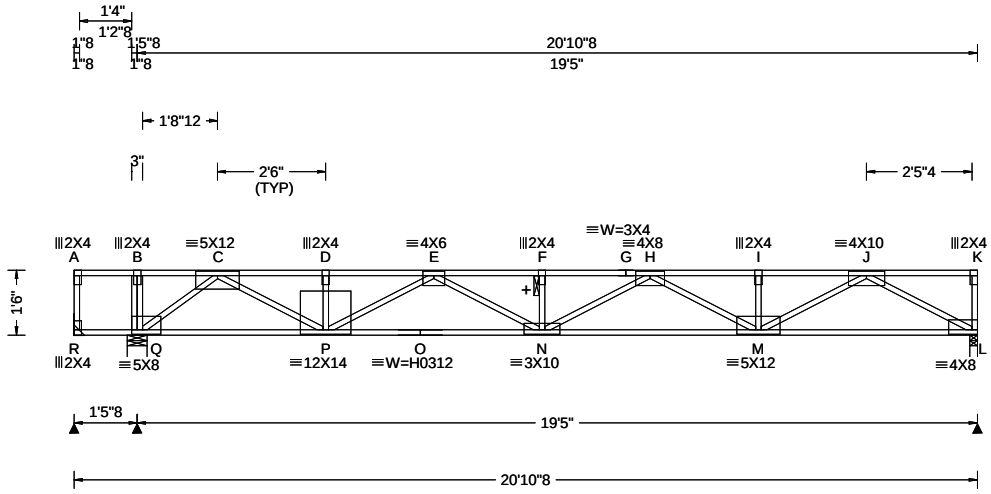
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 9760 / SY42 FROM:	Ply: 2 Qty: 4	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19G	Cust: R 9316 JRef:1XdX93160012 T8 / DrwNo: 076.22.1330.11961 / NDW 03/17/2022

2 Complete Trusses Required



Loading Criteria (psf)			
TCLL:	40.00		
TCDL:	25.00		
BCLL:	0.00		
BCDL:	10.00		
Des Ld:	75.00		
NCBCLL:	0.00		
Soffit:	0.00		
Load Duration:	1.00		
Spacing:	16.0 "		

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.290	F	799	480
VERT(CL): 0.545	F	426	360
HORZ(LL): 0.041	C	-	-
HORZ(TL): 0.076	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.583
Max BC CSI: 0.585
Max Web CSI: 0.629

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	24	/-58	/-	/-	/-	/-
Q	3942	/-	/-	/-	/-	/-
L	1997	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-3789	G - H	0	-5138
D - E	0	-3789	H - I	0	-3219
E - F	0	-5138	I - J	0	-3219
F - G	0	-5138			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1835	0	N - M	4478	0
P - O	4877	0	M - L	1748	0
O - N	4877	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - Q	0	-465	F - N	0	-473
Q - C	0	-2340	N - H	753	0
C - P	2229	0	H - M	0	-1437
D - P	0	-467	M - J	1679	0
P - E	0	-1242	J - L	0	-1984

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
Webs: 4x2 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 20.88
BC: From 13 plf at 0.00 to 13 plf at 20.88
TC: 443 lb Conc. Load at 0.94
TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27 7.60, 8.94,10.27,11.60,12.94

Deflection
Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

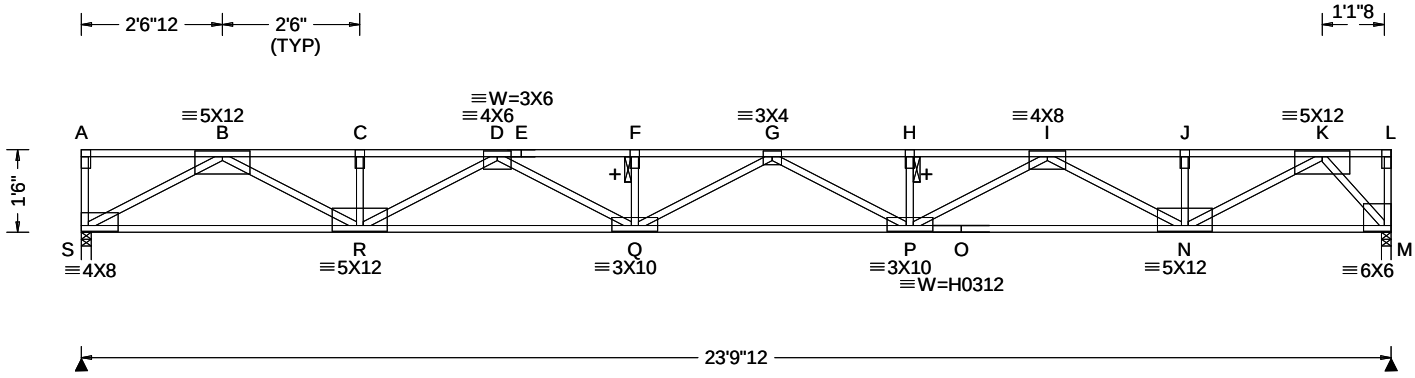
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11864 / SY42 FROM:	Ply: 1 Qty: 32	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F21	Cust: R 9316 JRef:1XdX93160012 T19 / DrwNo: 076.22.1330.02456 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.419	G	682	480
VERT(CL): 0.785	G	364	360
HORZ(LL): 0.056	M	-	-
HORZ(TL): 0.104	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.442
Max BC CSI: 0.664
Max Web CSI: 0.556

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
S	1191	/-	/-	/-	/-	/-
M	1191	/-	/-	/-	/-	/-

S Brg Wid = 2.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3491	G - H	0	-4826
C - D	0	-3491	H - I	0	-4826
D - E	0	-5062	I - J	0	-2773
E - F	0	-5062	J - K	0	-2773
F - G	0	-5062			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	1995	0	P - O	4000	0
R - Q	4479	0	O - N	4000	0
Q - P	5145	0	N - M	1047	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2264	P - I	942	0
B - R	1707	0	I - N	0	-1401
R - D	0	-1127	N - K	1969	0
D - Q	665	0	K - M	0	-1557

Lumber
Top chord: 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

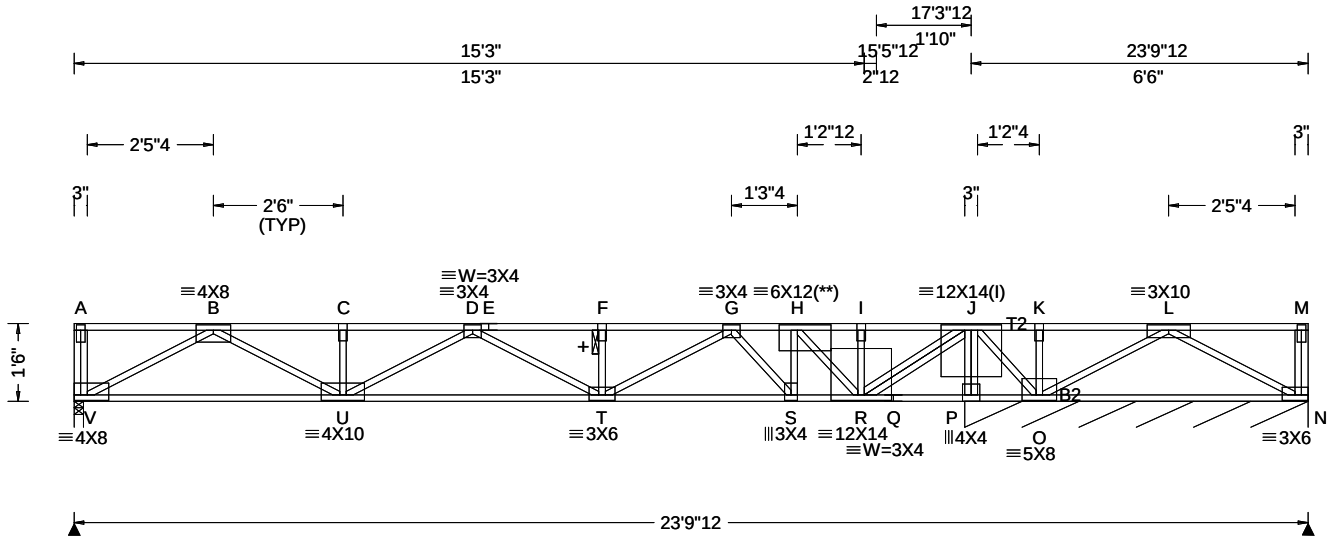
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11866 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F22	Cust: R 9316 JRef:1XdX93160012 T2 / DrwNo: 076.22.1330.05301 / NDW 03/17/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.179 F 999 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.335 F 613 360
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.026 B - -
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.049 B - -
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.504
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.472
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: No	Max Web CSI: 0.548
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	
	I: NA GCpi: NA	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: NA		

Lumber

Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)

TC: From	87 plf at	0.00 to	87 plf at	23.81
BC: From	13 plf at	0.00 to	13 plf at	23.81

TC: 1500 lb Conc. Load at 13.90

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

▲Maximum Reactions (lbs), or *=PLF

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
V	961	/-	/-	/-	/-	/-
N*	441	/-	/-	/-	/-	/-
N		/-246				

V Brg Wid = 2.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2565	G - H	0	-2521
C - D	0	-2565	H - I	0	-698
D - E	0	-3256	I - J	0	-698
E - F	0	-3256	J - K	1825	0
F - G	0	-3256	K - L	1825	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1507	0	R - Q	0	-2561
U - T	3113	0	Q - P	0	-2561
T - S	2904	0	P - O	0	-2561
S - R	2477	0	O - N	0	-681

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1714	H - R	0	-2670
B - U	1208	0	R - J	3882	0
U - D	0	-625	J - P	0	-3088
T - G	402	0	J - O	1065	0
G - S	0	-598	O - L	0	-1307
S - H	486	0	L - N	779	0

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

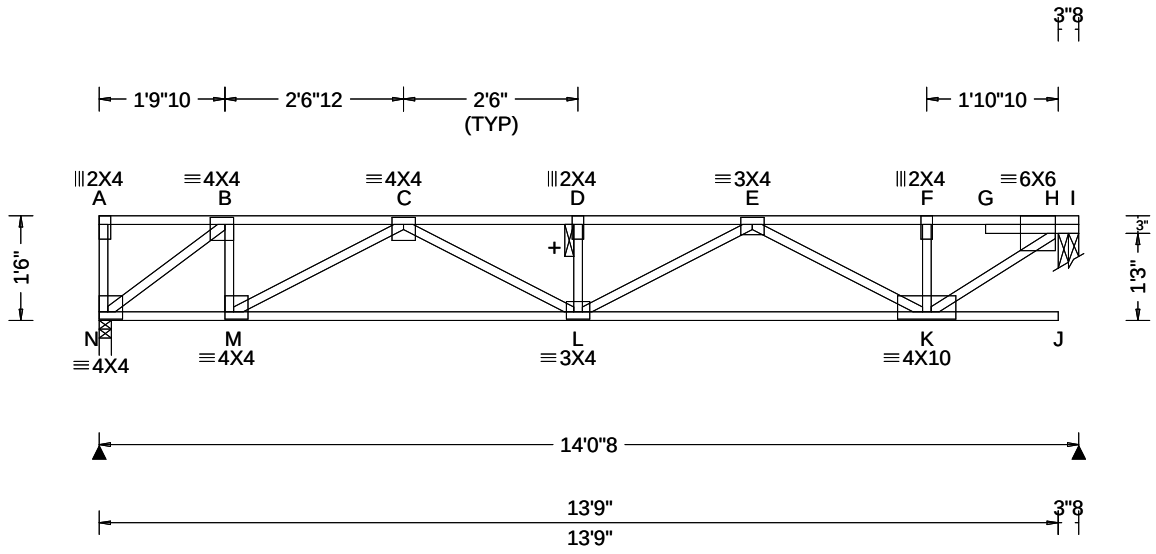
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11868 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F23	Cust: R 9316 JRef:1XdX93160012 T25 / DrwNo: 076.22.1330.03810 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.092	D	999	480
VERT(CL): 0.172	D	970	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.029	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.613
Max BC CSI: 0.522
Max Web CSI: 0.325

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	694	/-	/-	/-	/-	/-
H	707	/-	/-	/-	/-	/-

N Brg Wid = 2.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-869	E - F	0	-931
C - D	0	-1793	F - H	0	-930
D - E	0	-1793			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	831	0	L - K	1548	0
M - L	1525	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1045	E - K	0	-704
B - M	425	0	K - H	1152	0
M - C	0	-752			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

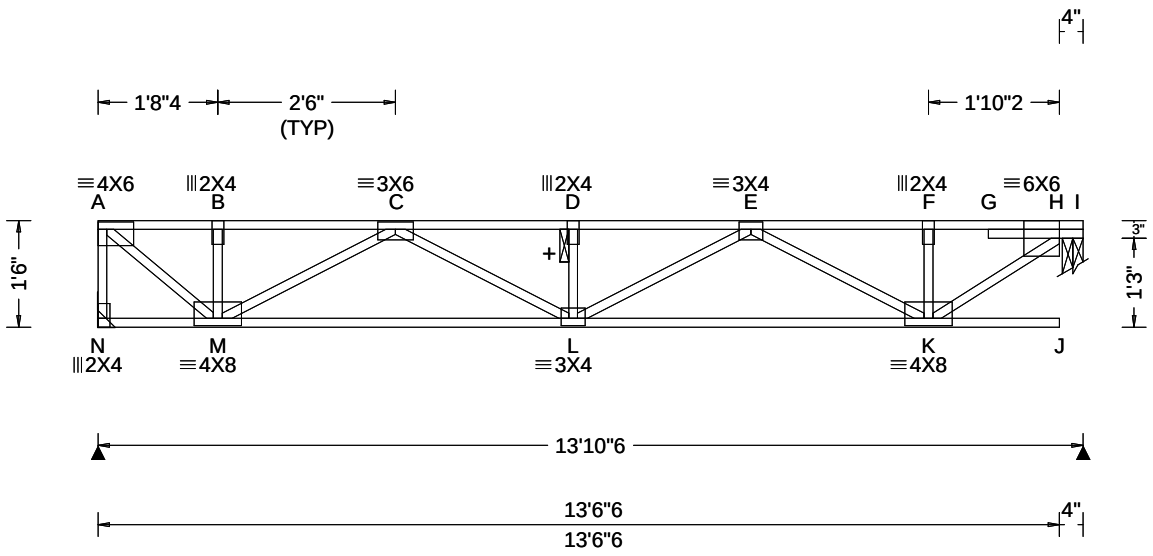
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11870 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F24	Cust: R 9316 JRef:1XdX93160012 T3 / DrwNo: 076.22.1330.02481 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.090	D	999	480
VERT(CL): 0.167	D	982	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.604
Max BC CSI: 0.513
Max Web CSI: 0.320

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	685	/-	/-	/-	/-	/-
H	697	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-776	D - E	0	-1749
B - C	0	-776	E - F	0	-917
C - D	0	-1749	F - H	0	-916

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1463	0	L - K	1518	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-684	E - K	0	-687
A - M	1001	0	K - H	1134	0
M - C	0	-784			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

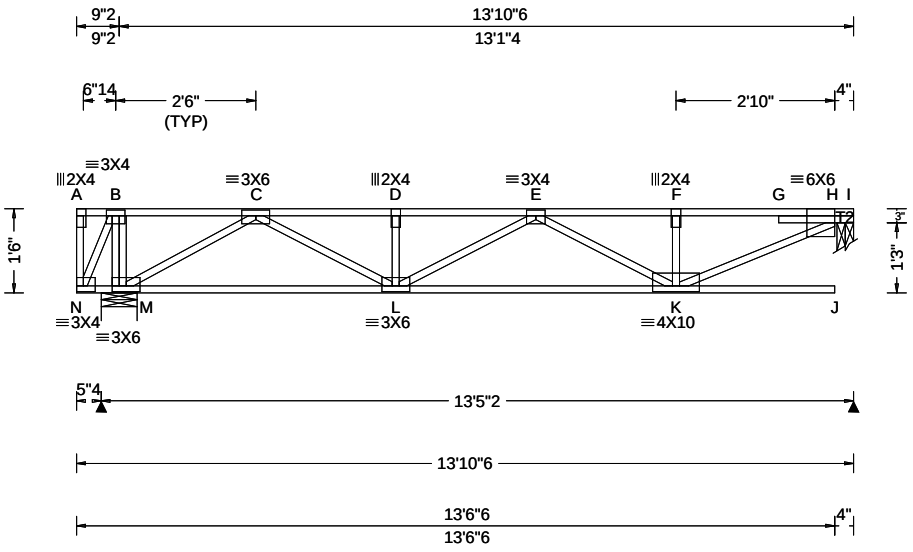
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 11872 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F25	Cust: R 9316 JRef:1XdX93160012 T11 / DrwNo: 076.22.1330.04335 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	J	784	480
VERT(CL): 0.316	J	488	360
HORZ(LL): 0.013	A	-	-
HORZ(TL): 0.024	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.609
Max BC CSI: 0.630
Max Web CSI: 0.367

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
M	729	/-	/-	/-	/-	/-
H	659	/-	/-	/-	/-	/-

M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-1447	E - F	0	-1177
D - E	0	-1447	F - H	0	-1178

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	912	0	L - K	1482	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	-1015	K - H	1301	0
C - L	614	0			

Lumber

Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

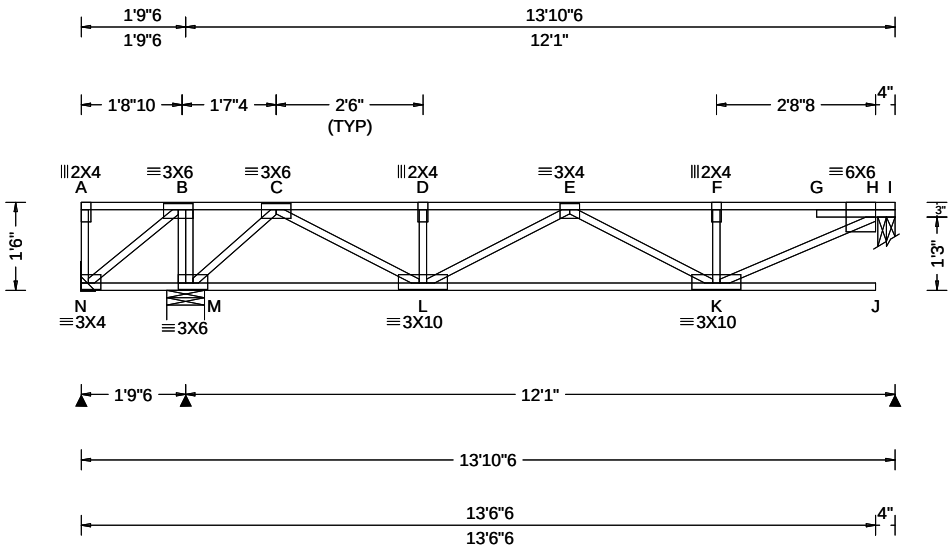
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11874 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F26	Cust: R 9316 JRef:1XdX93160012 T5 / DrwNo: 076.22.1330.02534 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.158	J	897	480
VERT(CL): 0.249	J	570	360
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.284

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-358	/-	/-	/-	/-
M	1154	/-	/-	/-	/-	/-
H	547	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	510	0	E - F	0	-902
C - D	0	-819	F - H	0	-903
D - E	0	-819			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-465	L - K	1035	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	596	0	C - L	815	0
B - M	0	-533	K - H	1005	0
M - C	0	-843			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

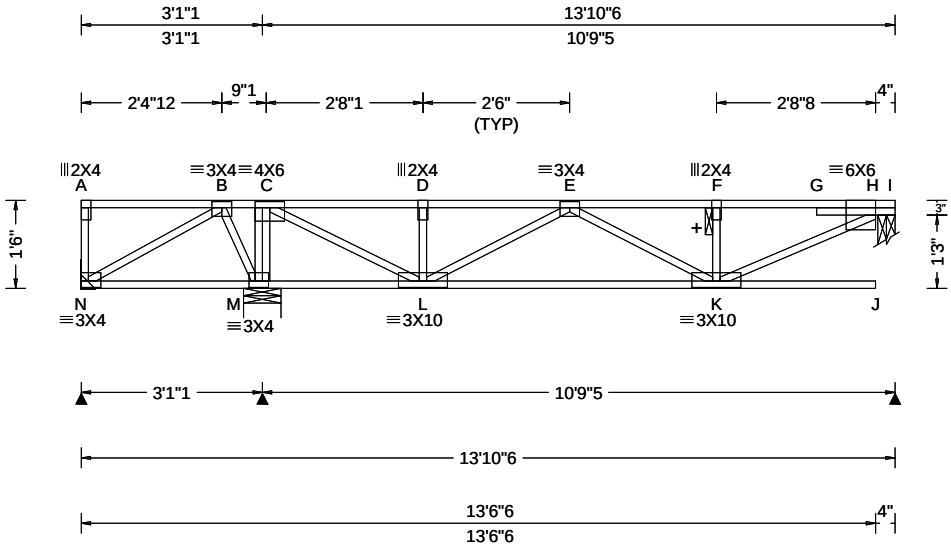
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11876 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F27	Cust: R 9316 JRef:1XdX93160012 T9 / DrwNo: 076.22.1330.02483 / NDW 03/17/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	869	480
VERT(CL): 0.233	J	549	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.748
Max BC CSI: 0.436
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
N	44 /-139	/-	/-	/-	/-	
M	963 /-	/-	/-	/-	/-	
H	491 /-	/-	/-	/-	/-	

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	427	0	E - F	0	- 782
C - D	0	- 495	F - H	0	- 784
D - E	0	- 495			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	815	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	- 633	K - H	872	0
C - L	964	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

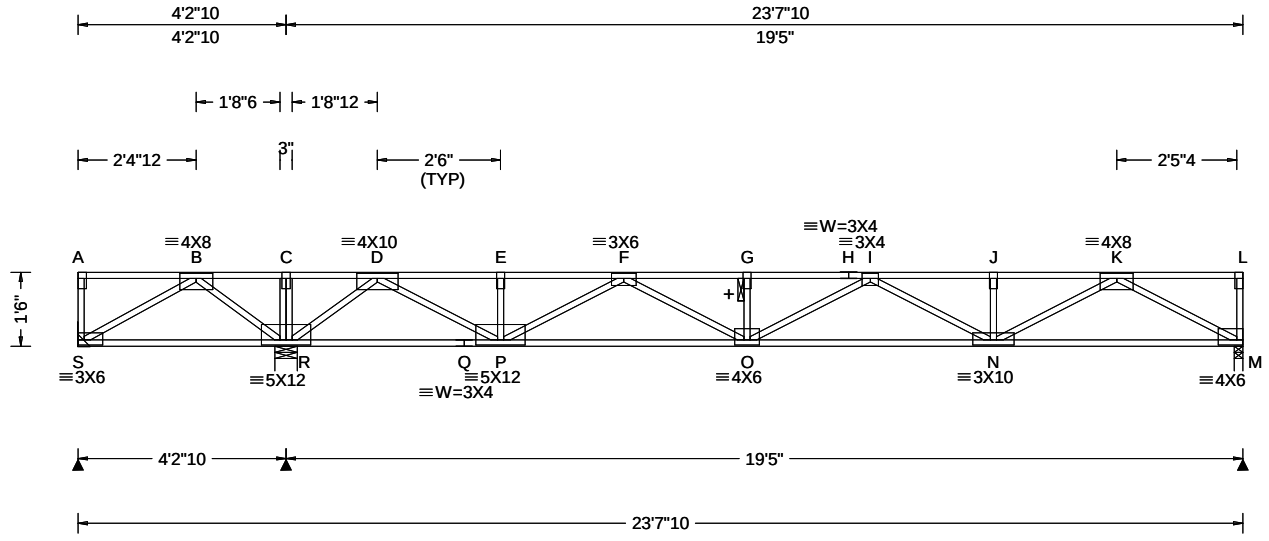
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11878 / SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F28	Cust: R 9316 JRef:1XdX93160012 T10 / DrwNo: 076.22.1330.02479 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.196	G	999	480
VERT(CL): 0.369	G	630	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.795
Max Web CSI: 0.467

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
S	-	/-490	/-	/-	/-	/-	
R	1906	/-	/-	/-	/-	/-	
M	843	/-	/-	/-	/-	/-	

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1763	0	G - H	0	- 2527
C - D	1763	0	H - I	0	- 2527
D - E	0	- 1026	I - J	0	- 2216
E - F	0	- 1026	J - K	0	- 2216
F - G	0	- 2527			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	- 944	P - O	1976	0
R - Q	0	- 440	O - N	2573	0
Q - P	0	- 440	N - M	1350	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1088	0	F - O	633	0
B - R	0	- 1142	I - N	0	- 408
R - D	0	- 1649	N - K	988	0
D - P	1656	0	K - M	0	- 1532
P - F	0	- 1087			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -490# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

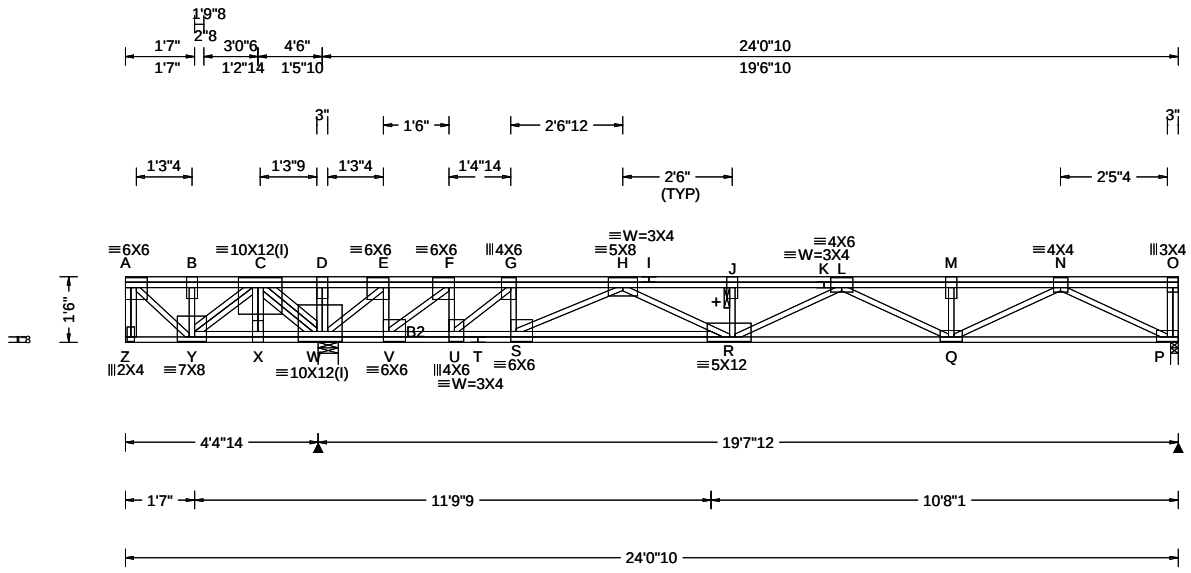
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 11880 / SY42 FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F28G	Cust: R 9316 JRef:1XdX93160012 T12 / DrwNo: 076.22.1330.02482 / NDW 03/17/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.120	A	443	480
VERT(CL): 0.268	Z	198	360
HORZ(LL): -0.025	A	-	-
HORZ(TL): 0.057	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.433
Max BC CSI: 0.260
Max Web CSI: 0.271

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
W	8750	/-	/-	/-	/-	/-	
P	618	/-243	/-	/-	/-	/-	

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	597	0	H - I	1855	- 383
B - C	597	0	I - J	1855	- 383
C - D	5342	0	J - K	1853	- 389
D - E	5337	0	K - L	1853	- 389
E - F	4767	0	L - M	685	- 689
F - G	4126	0	M - N	685	- 689
G - H	3551	0			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	- 1645	T - S	0	- 3597
X - W	0	- 1635	S - R	0	- 2646
W - V	0	- 4815	R - Q	647	- 1215
V - U	0	- 4178	Q - P	456	- 296
U - T	0	- 3597			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	- 789	G - S	577	0
Y - C	1366	0	S - H	0	- 1230
C - W	0	- 5021	H - R	961	0
W - E	0	- 1030	R - L	0	- 716
E - V	677	0	L - Q	599	0
V - F	0	- 1093	Q - N	264	- 439
F - U	694	0	N - P	330	- 495
U - G	0	- 980			

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.05
BC: From 13 plf at 0.00 to 13 plf at 24.05
TC: 1129 lb Conc. Load at 0.12
TC: 5500 lb Conc. Load at 3.03

Plating Notes

All plates are 3X6 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

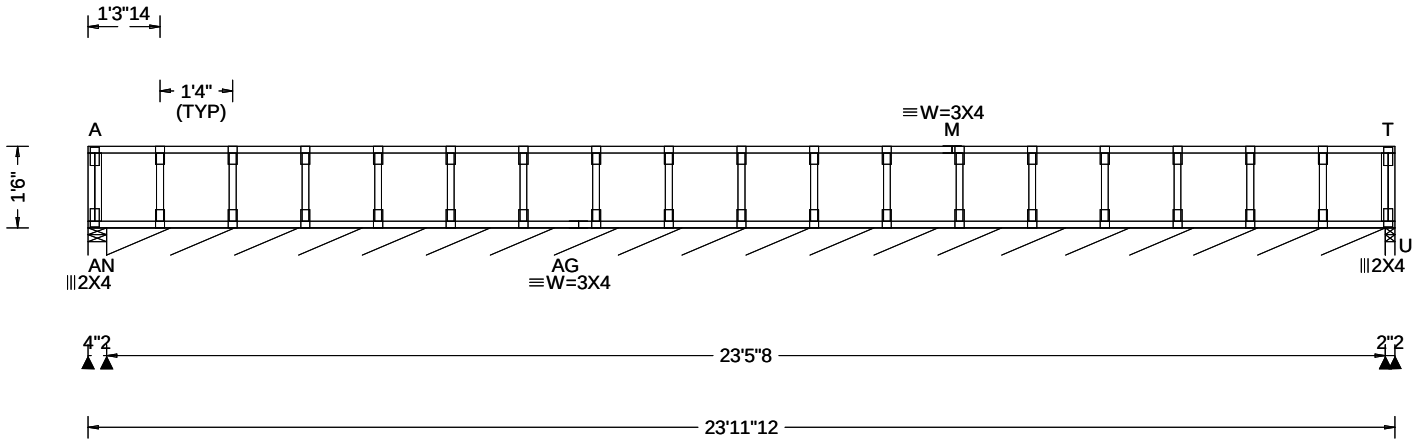
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11882 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L11	Cust: R 9316 JRef:1XdX93160012 T29 / DrwNo: 076.22.1330.04217 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	T	999	480
VERT(CL): 0.001	T	999	360
HORZ(LL): -0.003	B	-	-
HORZ(TL): 0.005	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.060
Max BC CSI: 0.013
Max Web CSI: 0.018

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AN	68 /-	/-	/-	/-	/-
AN*	97 /-	/-	/-	/-	/-
U	64 /-	/-	/-	/-	/-

AN Brg Wid = 4.1 Min Req = 1.5 (Truss)
AN Brg Wid = 281 Min Req = -
U Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AN, AN, & U are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

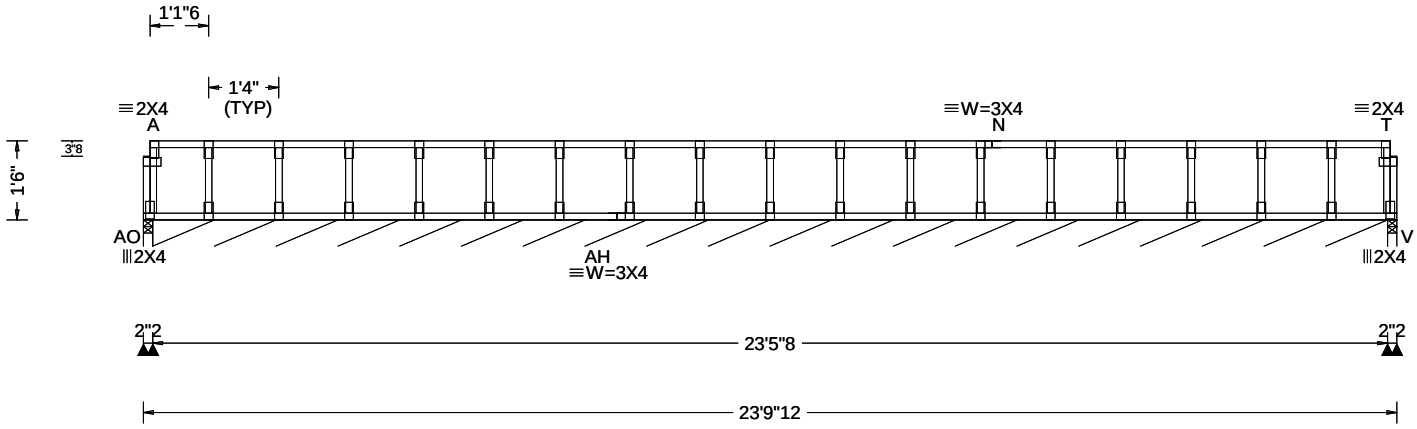
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11884 / SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L21	Cust: R 9316 JRef:1XdX93160012 T30 / DrwNo: 076.22.1330.04838 / NDW 03/17/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	T	999	480
VERT(CL): 0.000	T	999	360
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.057
Max BC CSI: 0.009
Max Web CSI: 0.018

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AO	48	/-	/-	/-	/-	/-
AO	*97	/-	/-	/-	/-	/-
V	48	/-	/-	/-	/-	/-

AO Brg Wid = 2.1 Min Req = 1.5 (Truss)
AO Brg Wid = 281 Min Req = -
V Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AO, AO, & V are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.

03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

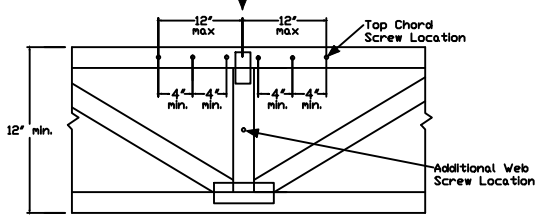
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.

Max. Concentrated Load per Chart Below

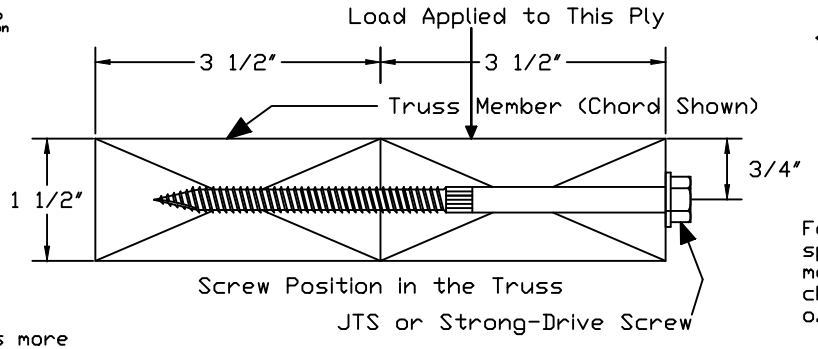


Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

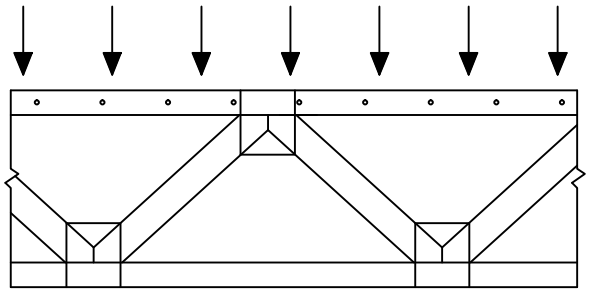
For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

Refer to Alpine sealed drawing for individual truss design.



Max. Uniform Load per Chart Below



For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

TC LL		PSF
TC DL		PSF
BC DL		PSF
BC LL		PSF
TOT. LD.		PSF
DUR. FAC.	1.00	
SPACING		

REF	SY42 Connection
DATE	01/19/2018
DRWG	CNSY42PL0118

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

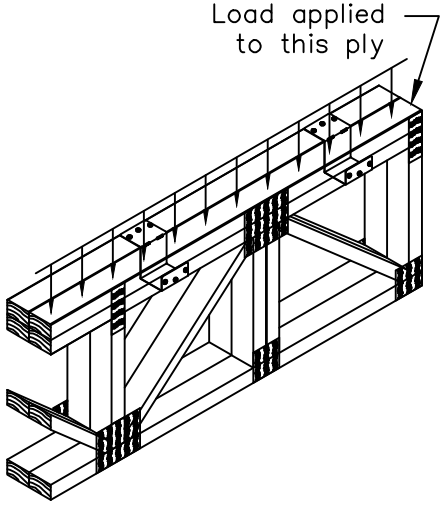
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL

FOR DOWNWARD LOADS ONLY

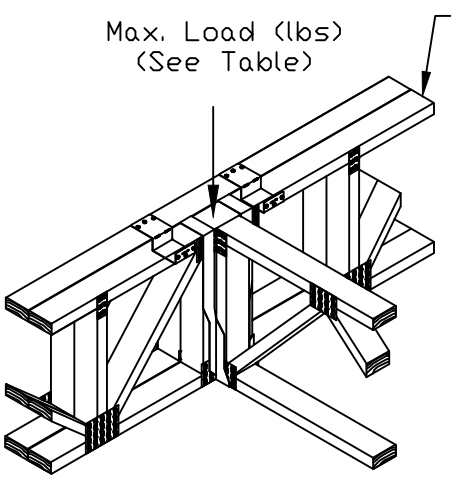
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application



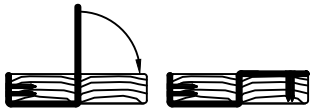
Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

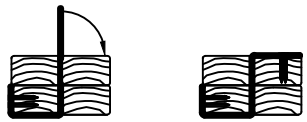
Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.

2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

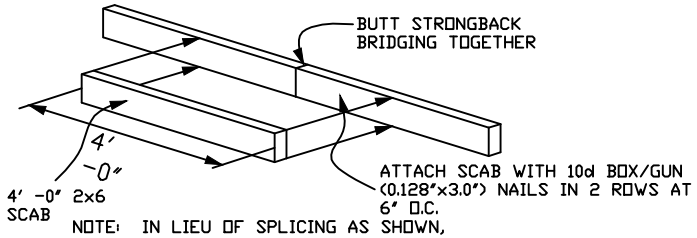
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

ALPINE® ITW COMPANY
[illegible] Earth City Expressway
[illegible], MO 63045

DUR. FAC. ALL

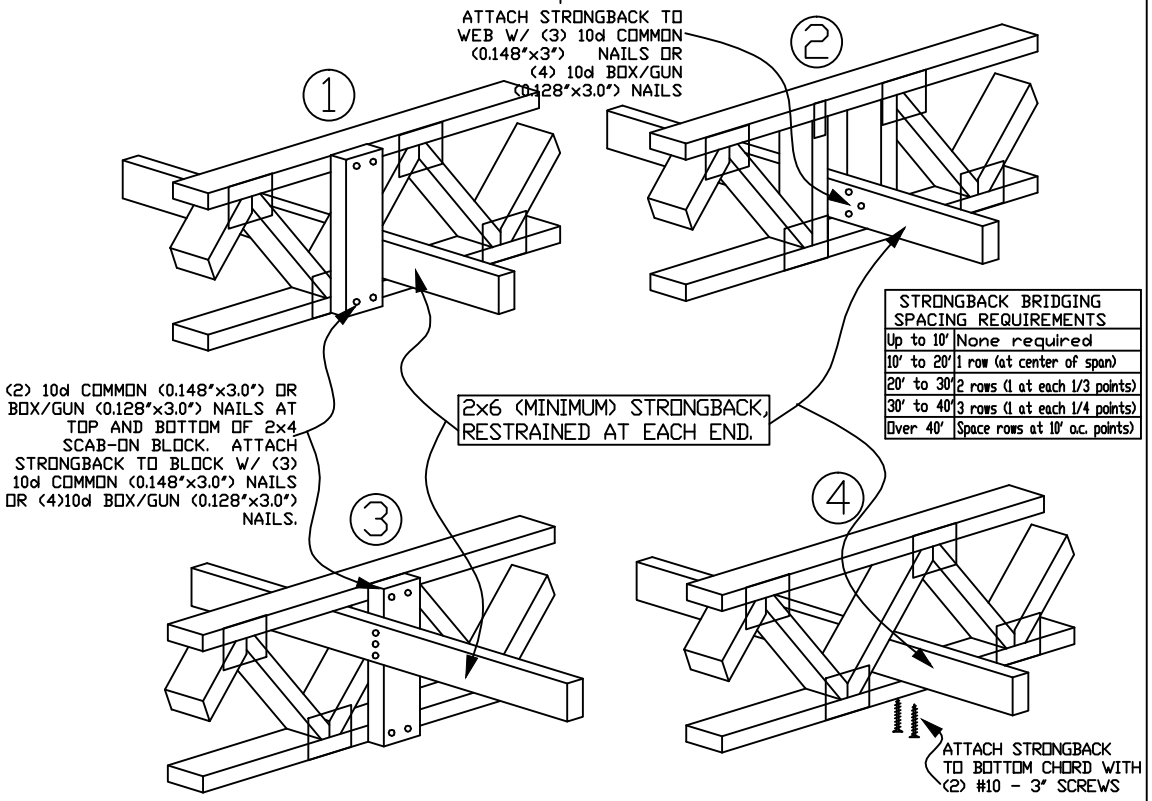
REF SY42 Connection
DATE 10/01/14
DRWG LSCSYX2A1014

STRONGBACK BRIDGING RECOMMENDATIONS



STRONGBACK BRIDGING SPLICE DETAIL

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING SPACING REQUIREMENTS	
Up to 10'	None required
10' to 20'	1 row (at center of span)
20' to 30'	2 rows (1 at each 1/3 points)
30' to 40'	3 rows (1 at each 1/4 points)
Over 40'	Space rows at 10' o.c. points)

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

- All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

ALPINE® ITW COMPANY
Earth City Expressway
63045

*****WARNING*** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
*****IMPORTANT*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

TC LL	PSF	REF STRONGBACK
TC DL	PSF	DATE 10/01/14
BC DL	PSF	DRWG STRBRIBR1014
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.	1.00	
SPACING		

B D C

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 13 Truss	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

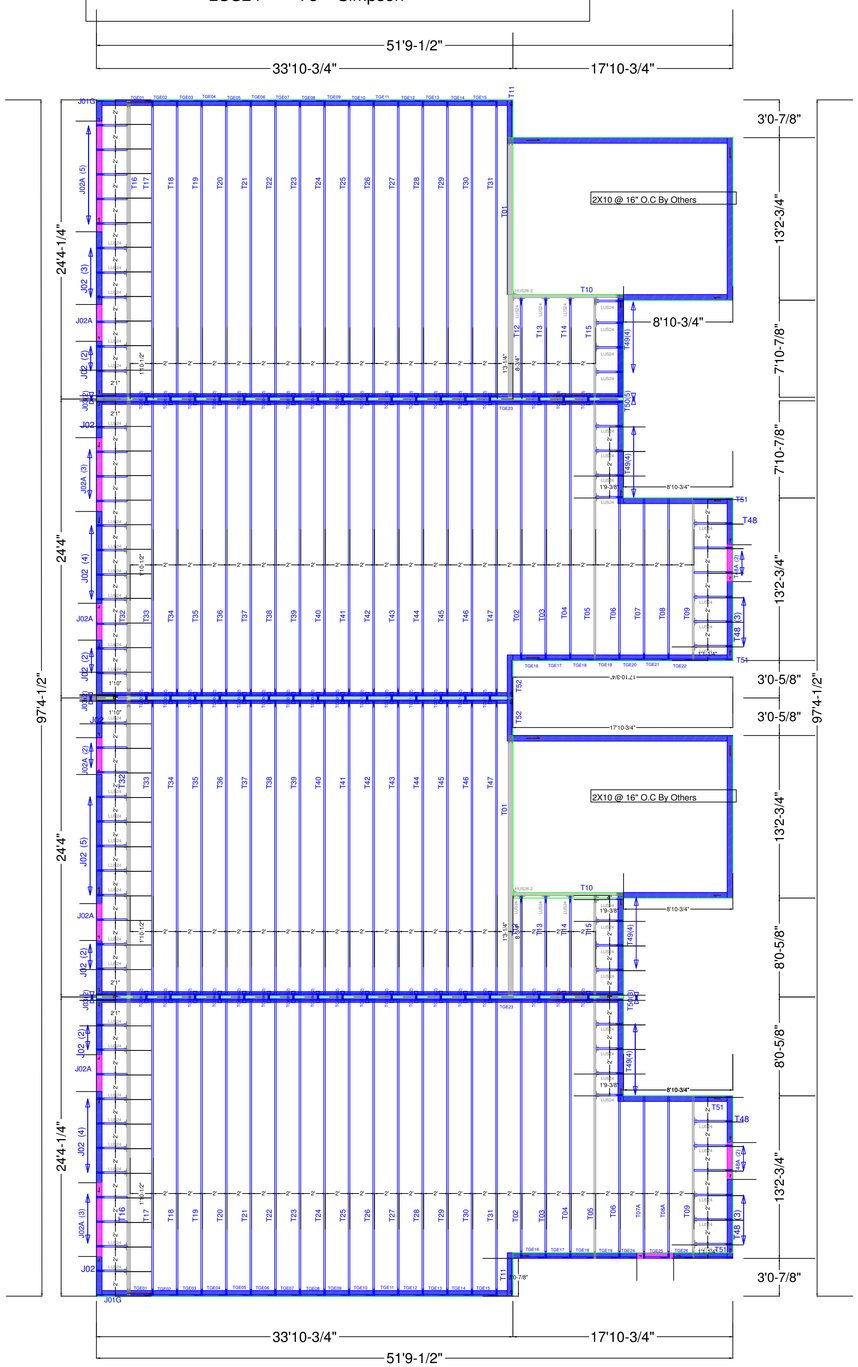
Group 13 Roof Layout

Total Truss Quantity = 349.

Total Plan Area with OHs = 4539 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
=	HUS26-2	2	Simpson
=	LUS24	78	Simpson



ROOF TRUSS LAYOUT (NTS)

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 BY: CB

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 8/12/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRi ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

Job Name: McCambridge Brothers Construction

Designer: Juan R Quiroz

Date: 5/21/2022

Reference #: JB-220698

mill Creek
3363 S. Hatteaus Rd.
Harrisonville, MO 64701
(316) 830-6108

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

ALPINE AN ITW COMPANY

05/22/2022

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 8/12/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED. REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 BY: CB

Site Information:	**Page 1:**
Customer: Mill Creek Truss	*Job Number:* JB-220698
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1XfQ93160001
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 109 *Building Type:* Closed	*Design Loading (psf):* 40.00, 65.00

This package contains general notes pages, 85 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	142.22.1734.11900	J01G	2	142.22.1734.14477	J02
3	142.22.1734.16460	J03	4	142.22.1734.18583	T01
5	142.22.1734.23347	T02	6	142.22.1734.27603	T03
7	142.22.1734.30133	T04	8	142.22.1734.33283	T05
9	142.22.1734.58913	T06	10	142.22.1735.38470	T07
11	142.22.1735.40457	T08	12	142.22.1735.45817	T10
13	142.22.1735.49240	T11	14	142.22.1735.52497	T12
15	142.22.1735.54660	T13	16	142.22.1735.56590	T14
17	142.22.1735.58717	T15	18	142.22.1736.01310	T17
19	142.22.1736.03657	T18	20	142.22.1736.06263	T19
21	142.22.1736.08437	T20	22	142.22.1736.11053	T21
23	142.22.1736.13263	T22	24	142.22.1736.26467	T23
25	142.22.1736.28763	T24	26	142.22.1736.31153	T25
27	142.22.1736.33737	T26	28	142.22.1736.36057	T27
29	142.22.1736.38320	T28	30	142.22.1736.41100	T29
31	142.22.1736.43433	T30	32	142.22.1736.45693	T31
33	142.22.1736.49590	T33	34	142.22.1736.51790	T34
35	142.22.1736.54197	T35	36	142.22.1736.56857	T36
37	142.22.1736.59167	T37	38	142.22.1737.01483	T38
39	142.22.1737.03983	T39	40	142.22.1737.06173	T40
41	142.22.1737.08863	T41	42	142.22.1737.11367	T42
43	142.22.1737.14090	T43	44	142.22.1737.16577	T44
45	142.22.1737.19050	T45	46	142.22.1737.23047	T46
47	142.22.1737.25340	T47	48	142.22.1737.27283	T48
49	142.22.1737.29410	T49	50	142.22.1737.31510	T50

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/22/2022

Site Information:	Page 2:
Customer: Mill Creek Truss	*Job Number:* JB-220698
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	142.22.1737.33463	T51
53	142.22.1737.39840	TGE01
55	142.22.1737.43777	TGE03
57	142.22.1737.48643	TGE05
59	142.22.1739.11650	TGE07
61	142.22.1739.17153	TGE09
63	142.22.1739.21473	TGE11
65	142.22.1739.26023	TGE13
67	142.22.1739.30243	TGE15
69	142.22.1739.34360	TGE17
71	142.22.1739.38677	TGE19
73	142.22.1739.42963	TGE21
75	142.22.1739.47293	TGE23
77	142.22.1739.51830	TGE26
79	142.22.1739.56427	T16
81	142.22.1740.00900	J02A
83	142.22.1740.05523	TGE25
85	142.22.1740.27283	T07A
87	GABRST160118	
89	BRCLBSUB0119	

Item	Drawing Number	Truss
52	142.22.1737.37840	T52
54	142.22.1737.41873	TGE02
56	142.22.1737.45910	TGE04
58	142.22.1737.50750	TGE06
60	142.22.1739.14110	TGE08
62	142.22.1739.19383	TGE10
64	142.22.1739.24007	TGE12
66	142.22.1739.28127	TGE14
68	142.22.1739.32407	TGE16
70	142.22.1739.36450	TGE18
72	142.22.1739.41033	TGE20
74	142.22.1739.45187	TGE22
76	142.22.1739.49803	TGE24
78	142.22.1739.53913	T09
80	142.22.1739.58860	T32
82	142.22.1740.02947	T48A
84	142.22.1740.07960	T08A
86	A11530ENC160118	
88	GBLLETIN0118	
90	DEFLCAMB1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

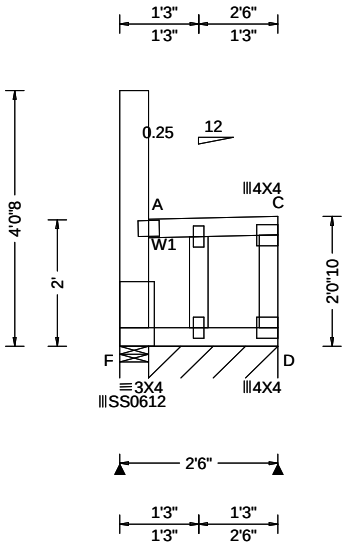
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 13

SEQN: 37349 GABL FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J01G	Cust: R 9316 JRef:1XfQ93160001 T208 DrwNo: 142.22.1734.11900 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
18SS, WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.005	A	999	360
VERT(CL): 0.007	A	999	240
HORZ(LL): 0.092	A	-	-
HORZ(TL): 0.105	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.129
Max BC CSI: 0.373
Max Web CSI: 0.164

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	47	/-	/-	/124	/146	/99
D*	134	/-	/-	/130	/58	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 24.5 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

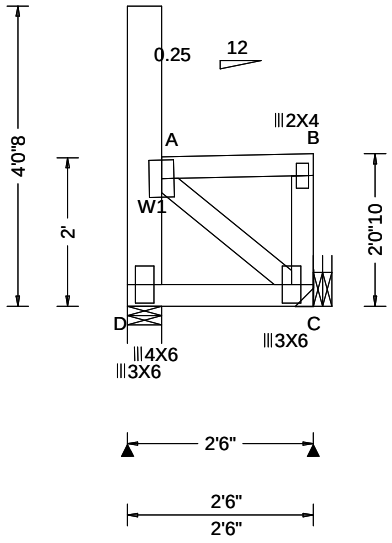
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37350 MONO FROM:	Ply: 1 Qty: 27	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02	Cust: R 9316 JRef:1XfQ93160001 T218 DrwNo: 142.22.1734.14477 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.103
Max BC CSI: 0.079
Max Web CSI: 0.131

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	147	/-	/-	/114	/80	/91
C	173	/-	/-	/158	/64	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
A - C	240	-390

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

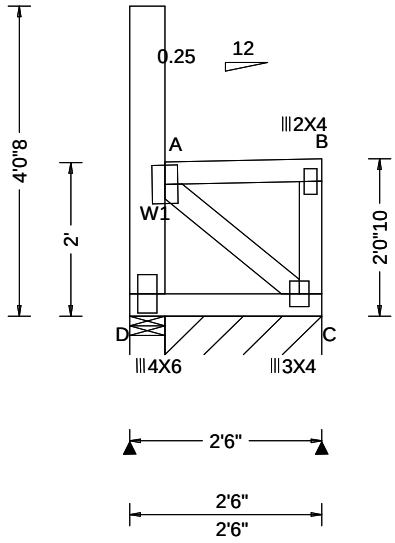
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37351 MONO FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J03	Cust: R 9316 JRef:1XfQ93160001 T135 DrwNo: 142.22.1734.16460 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.103
Max BC CSI: 0.079
Max Web CSI: 0.106

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	147	/-	/-	/123	/86	/99
C*	85	/-	/-	/78	/34	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = 24.5 Min Req = -
Bearings D & D are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

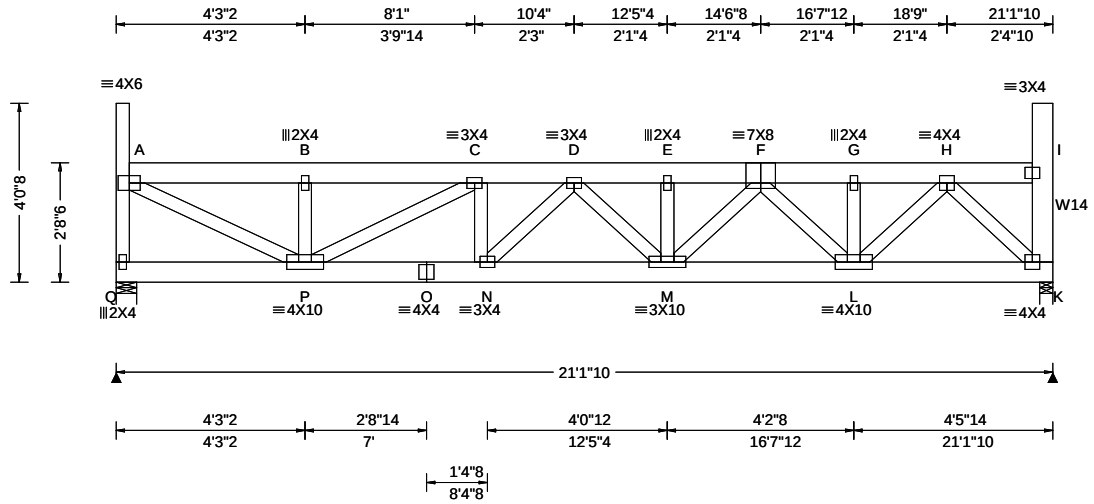
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37425 FLAT FROM:	Ply: 3 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T01	Cust: R 9316 JRef:1XfQ93160001 T2 DrwNo: 142.22.1734.18583 / FK 05/22/2022	

3 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.060	D	999	360
VERT(CL): 0.111	D	999	240
HORZ(LL): 0.014	K	-	-
HORZ(TL): 0.026	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.054
Max BC CSI: 0.283
Max Web CSI: 0.291

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	1981	/-	/-	/-	/125	/-
K	2325	/-	/-	/-	/158	/-

Wind reactions based on MWFRS
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
K Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings Q & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	72	- 1106	E - F	163	- 2215
B - C	72	- 1102	F - G	98	- 1390
C - D	123	- 1792	G - H	98	- 1390
D - E	163	- 2215			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	1751	- 119	M - L	1836	- 133
O - N	1751	- 119	L - K	768	- 54
N - M	2024	- 144			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - A	40	- 620	F - L	50	- 652
A - P	1188	- 77	L - H	908	- 65
P - C	55	- 752	H - K	74	- 1041
M - F	554	- 44			

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 9.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	70 plf at	0.29 to	70 plf at	20.68	
BC: From	60 plf at	0.00 to	60 plf at	21.14	

BC: 1611 lb Conc. Load at 12.90

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.39	1.34	13.80	3.32
20.68	0.00	20.39	1.34	13.80	3.32

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

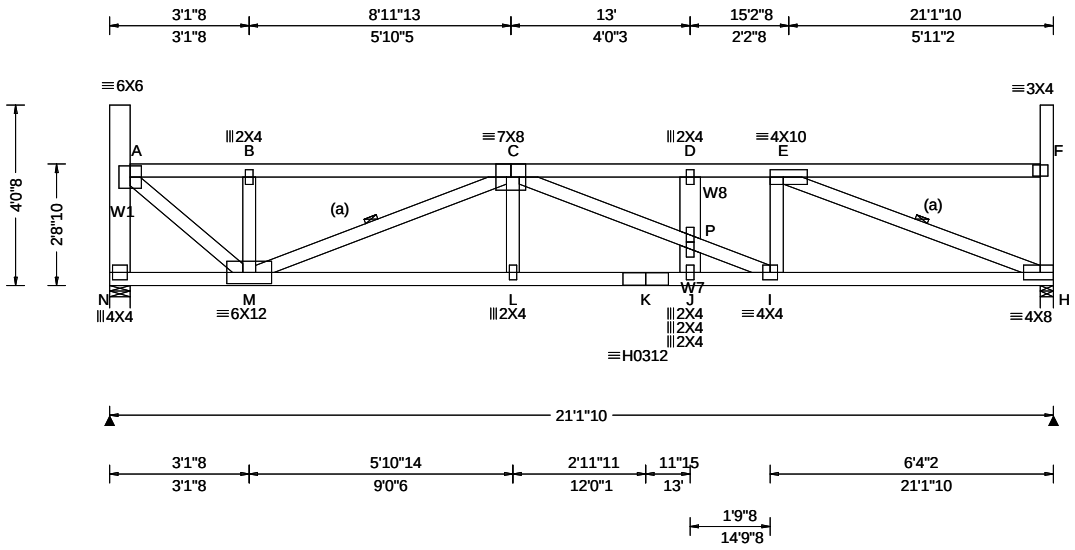
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37352 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T02	Cust: R 9316 JRef:1XfQ93160001 T165 DrwNo: 142.22.1734.23347 / FK 05/22/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.138	D	999	360
VERT(CL): 0.256	D	990	240
HORZ(LL): 0.036	H	-	-
HORZ(TL): 0.066	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.439
Max BC CSI: 0.523
Max Web CSI: 0.606

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1340	/-	/-	/640	/77	/121
H	1352	/-	/-	/645	/79	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.7 (Truss)
H Brg Wid = 3.5 Min Req = 1.7 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	137	- 1624	C - D	147	- 2651
B - C	136	- 1621	D - E	147	- 2651

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	3043	- 237	J - I	3043	- 237
L - K	3043	- 237	I - H	2579	- 164
K - J	3043	- 237			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	81	- 1286	P - I	95	- 436
A - M	1934	- 123	I - E	605	- 3
M - C	127	- 1537	E - H	176	- 2736
C - P	94	- 420			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.32	13.12	3.16
20.84	0.00	20.39	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

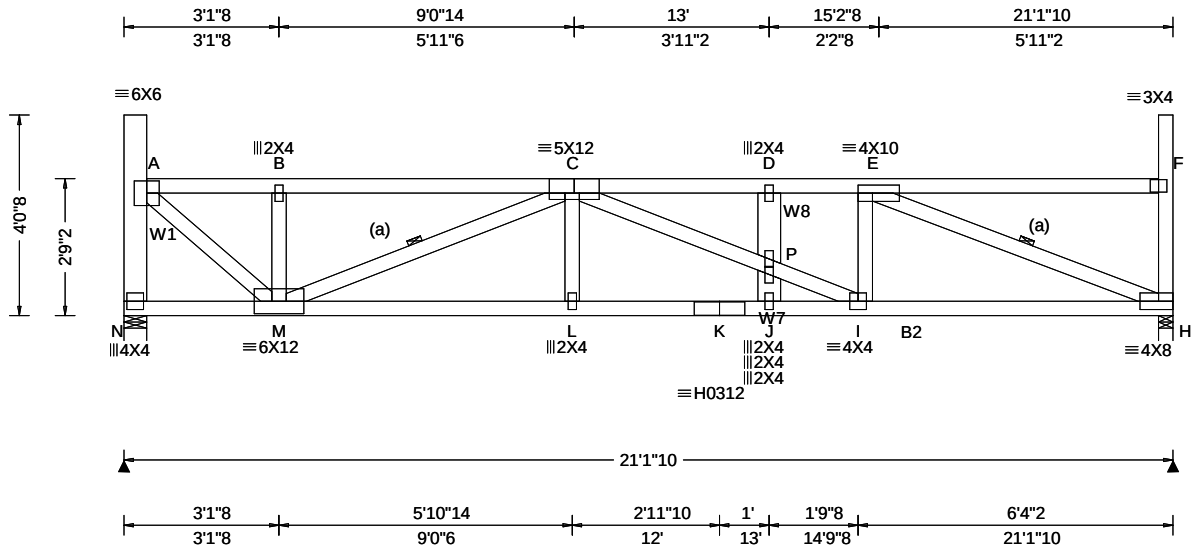
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37353 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T03	Cust: R 9316 JRef:1XfQ93160001 T168 DrwNo: 142.22.1734.27603 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.142	D	999	360
VERT(CL): 0.265	D	957	240
HORZ(LL): 0.040	H	-	-
HORZ(TL): 0.075	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.440
Max BC CSI: 0.996
Max Web CSI: 0.600

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1342	/-	/-	/640	/78	/120
H	1353	/-	/-	/644	/80	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 2.1 (Truss)
H Brg Wid = 3.5 Min Req = 1.7 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	135	- 1601	C - D	146	- 2612
B - C	135	- 1598	D - E	146	- 2612

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2997	- 236	J - I	2997	- 236
L - K	2997	- 236	I - H	2541	- 163
K - J	2997	- 236			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	82	- 1290	P - I	93	- 431
A - M	1919	- 123	I - E	605	- 3
M - C	126	- 1516	E - H	174	- 2703
C - P	92	- 413			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.28	11.74	2.83
20.84	0.00	20.39	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

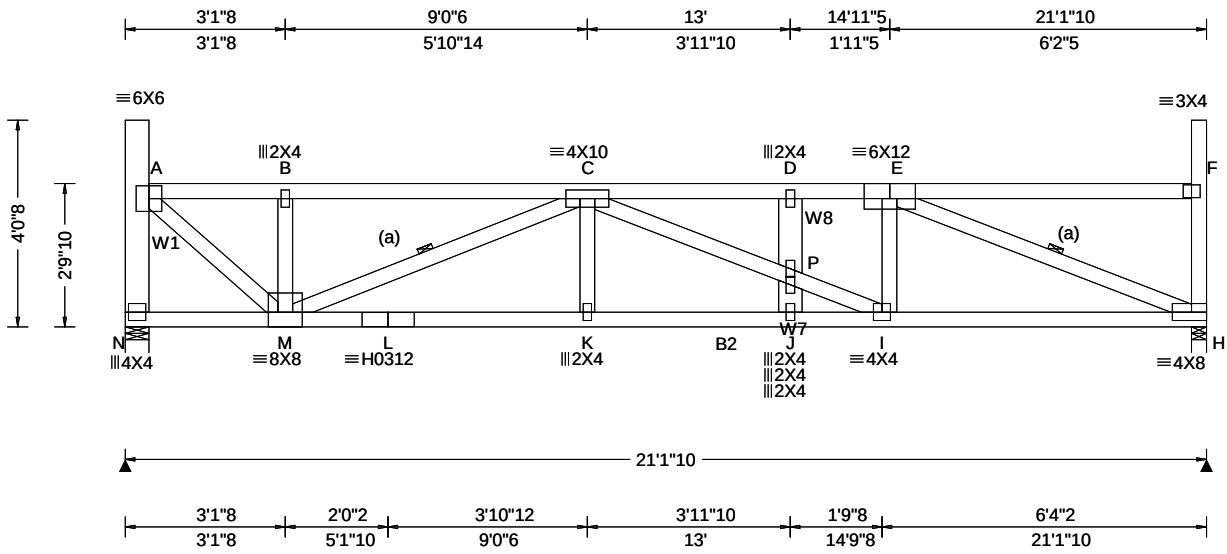
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37354 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T04	Cust: R 9316 JRef:1XfQ93160001 T134 DrwNo: 142.22.1734.30133 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.132	D	999	360
VERT(CL): 0.236	D	999	240
HORZ(LL): 0.036	H	-	-
HORZ(TL): 0.067	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.440
Max BC CSI: 0.919
Max Web CSI: 0.592

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1342	/-	/-	/639	/78	/119
H	1353	/-	/-	/644	/80	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 2.1 (Truss)
H Brg Wid = 3.5 Min Req = 1.7 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	133	- 1571	C - D	168	- 2565
B - C	132	- 1567	D - E	168	- 2565

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2953	- 233	J - I	2953	- 233
L - K	2953	- 233	I - H	2494	- 161
K - J	2953	- 233			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	83	- 1287	P - I	92	- 685
A - M	1894	- 121	I - E	611	- 3
M - C	124	- 1506	E - H	171	- 2659
C - P	91	- 659			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.24	10.35	2.50
20.84	0.00	20.39	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

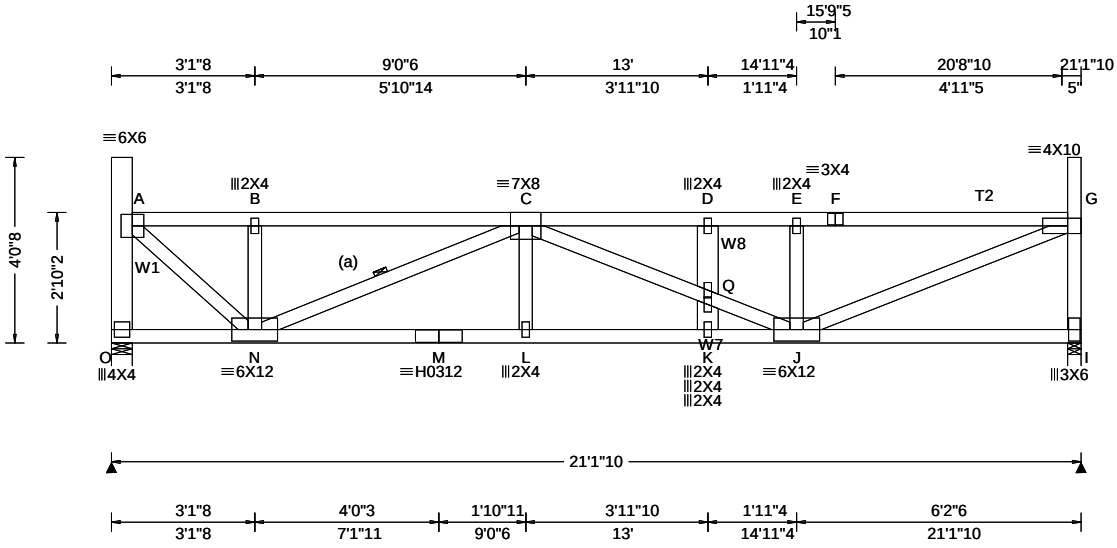
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37422 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T05	Cust: R 9316 JRef:1XfQ93160001 T167 DrwNo: 142.22.1734.33283 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.153	D	999	360
VERT(CL): 0.283	D	895	240
HORZ(LL): 0.034	A	-	-
HORZ(TL): 0.063	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.626
Max BC CSI: 0.730
Max Web CSI: 0.771

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	1435	/-	/-	/-	/121	/-
I	1602	/-	/-	/-	/245	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 1.8 (Truss)
I Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	144	- 1659	D - E	444	- 3020
B - C	144	- 1656	E - F	444	- 3017
C - D	444	- 3020	F - G	444	- 3025

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	3240	- 340	L - K	3240	- 340
M - L	3240	- 340	K - J	3240	- 340

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	119	- 1381	Q - J	0	- 448
A - N	2014	- 175	J - G	3143	- 461
N - C	214	- 1726	G - I	193	- 1404
C - Q	0	- 432			

Lumber
Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 20.84
BC: From 60 plf at 0.00 to 60 plf at 13.29
BC: From 30 plf at 13.29 to 30 plf at 21.14
BC: 144 lb Conc. Load at 13.29,15.07,17.07,19.07

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.20	8.97	2.16
20.84	0.00	20.39	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

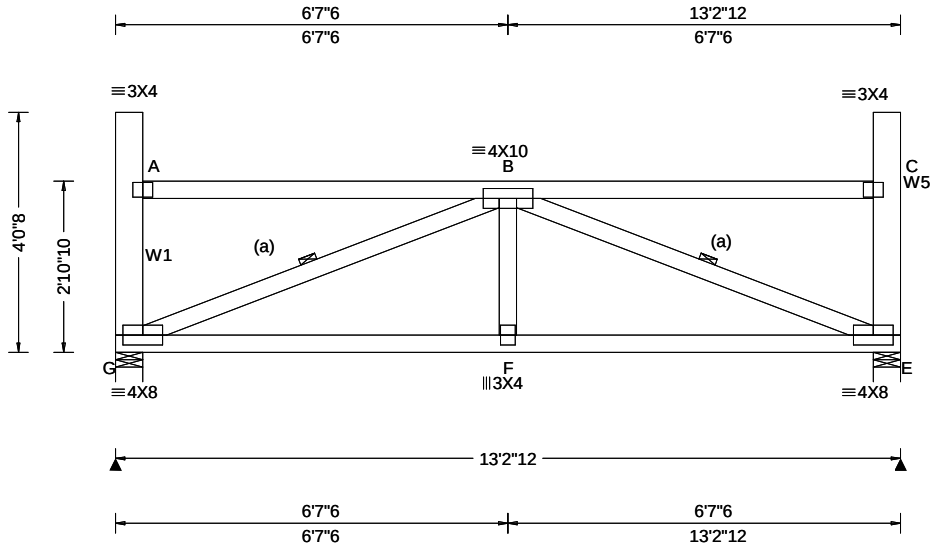
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37355 SPEC FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T06	Cust: R 9316 JRef:1XfQ93160001 T149 DrwNo: 142.22.1734.58913 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.043	F	999	360
VERT(CL): 0.080	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.028	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.546
Max BC CSI: 0.744
Max Web CSI: 0.315

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	828	/-	/-	/408	/59	/116
E	828	/-	/-	/408	/59	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1311	- 166	F - E	1311	- 166

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	179	- 1334	B - E	176	- 1334
B - F	440	0			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.59	1.83
12.77	0.00	20.00	1.16	7.59	1.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

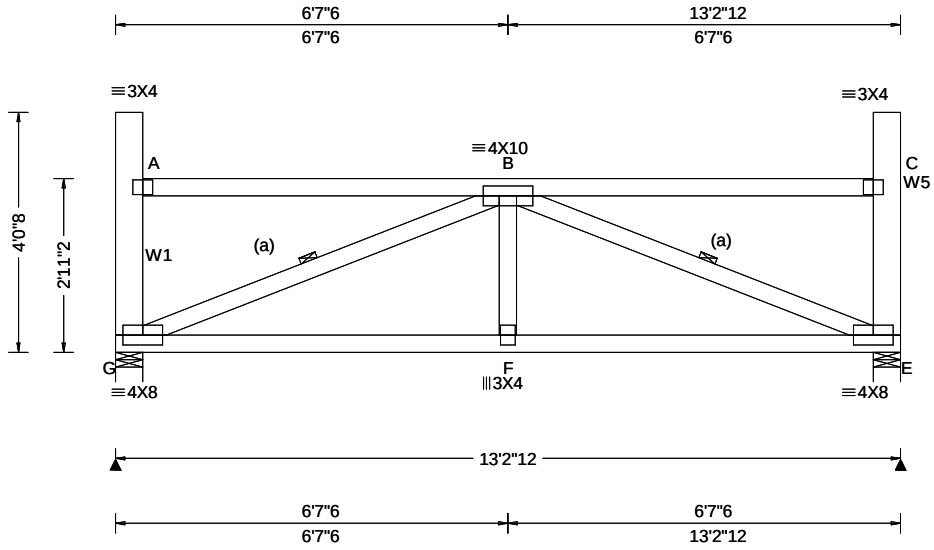
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37356 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T07	Cust: R 9316 JRef:1XfQ93160001 T146 DrwNo: 142.22.1735.38470 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.042	F	999	360
VERT(CL): 0.078	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.028	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.547
Max BC CSI: 0.741
Max Web CSI: 0.312

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	828	/-	/-	/407	/59	/115
E	828	/-	/-	/407	/59	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1291	- 164	F - E	1291	- 164

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	175	- 1316	B - E	173	- 1316
B - F	440	0			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.11	6.20	1.50
12.77	0.00	20.00	1.11	6.20	1.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

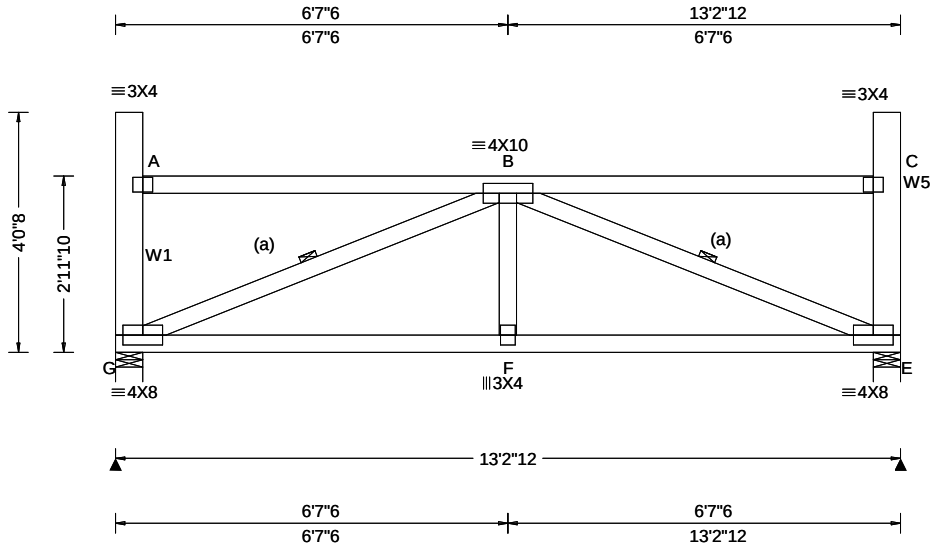
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37357 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T08	Cust: R 9316 JRef:1XfQ93160001 T150 DrwNo: 142.22.1735.40457 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.041	F	999	360
VERT(CL): 0.076	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.027	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.548
Max BC CSI: 0.738
Max Web CSI: 0.309

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	828	/-	/-	/407	/59	/114
E	828	/-	/-	/407	/59	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1271	- 162	F - E	1271	- 162

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	171	- 1299	B - E	169	- 1299
B - F	441	0			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

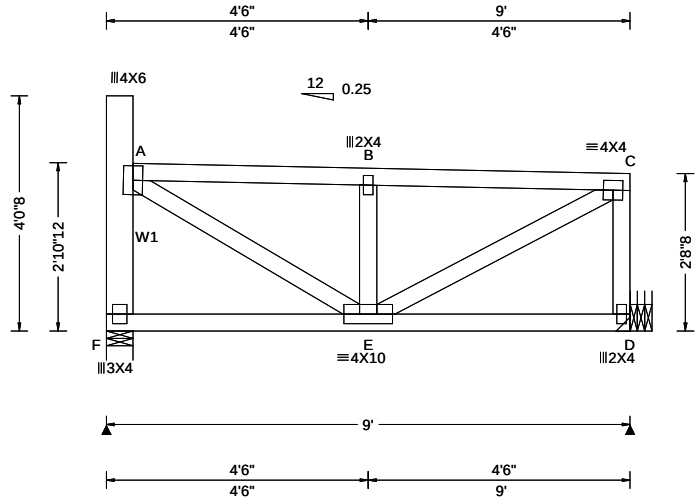
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37424 MONO FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T10	Cust: R 9316 JRef:1XfQ93160001 T1 DrwNo: 142.22.1735.45817 / FK 05/22/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.46 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.015	B	999	360
VERT(CL): 0.029	B	999	240
HORZ(LL): 0.004	A	-	-
HORZ(TL): 0.007	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.128
Max BC CSI: 0.459
Max Web CSI: 0.235

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	1371	/-	/-	/-	/183	/-
D	1611	/-	/-	/-	/155	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = - Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	100	- 859	B - C	100	- 860

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
F - A	54	- 490	E - C	959	- 112
A - E	909	- 102	C - D	58	- 507

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 3.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 35 plf at 0.46 to 35 plf at 9.00
BC: From 60 plf at 0.00 to 60 plf at 2.33
BC: From 30 plf at 2.33 to 30 plf at 9.00
BC: 762 lb Conc. Load at 2.33
BC: 527 lb Conc. Load at 4.33, 6.33, 8.33

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.84

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

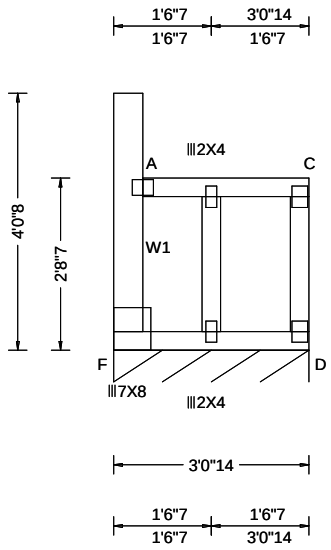
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37358 GABL FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T11	Cust: R 9316 JRef:1XfQ93160001 T187 DrwNo: 142.22.1735.49240 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	A	999	360
VERT(CL): 0.009	A	999	240
HORZ(LL): 0.117	A	-	-
HORZ(TL): 0.136	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.116
Max BC CSI: 0.326
Max Web CSI: 0.142

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	120	/-	/-	/56	/5	/30

Wind reactions based on MWFRS
D Brg Wid = 36.9 Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.34	13.63	2.61

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

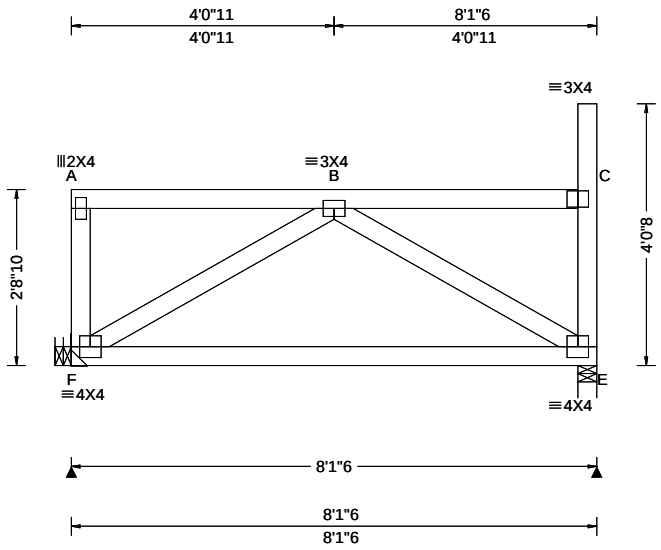
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37359 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T12	Cust: R 9316 JRef:1XfQ93160001 T110 DrwNo: 142.22.1735.52497 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.217
Max BC CSI: 0.611
Max Web CSI: 0.204

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/46	/93
E	507	/-	/-	/255	/47	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

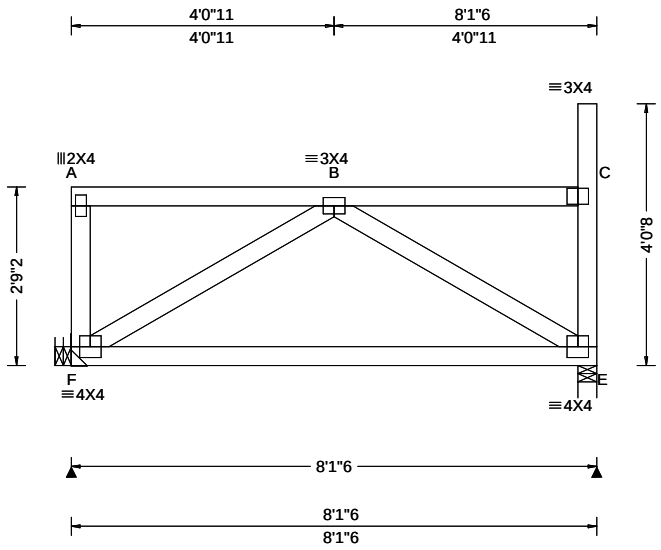
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37360 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T13	Cust: R 9316 JRef:1XfQ93160001 T229 DrwNo: 142.22.1735.54660 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.217
Max BC CSI: 0.611
Max Web CSI: 0.204

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/46	/92
E	507	/-	/-	/255	/47	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

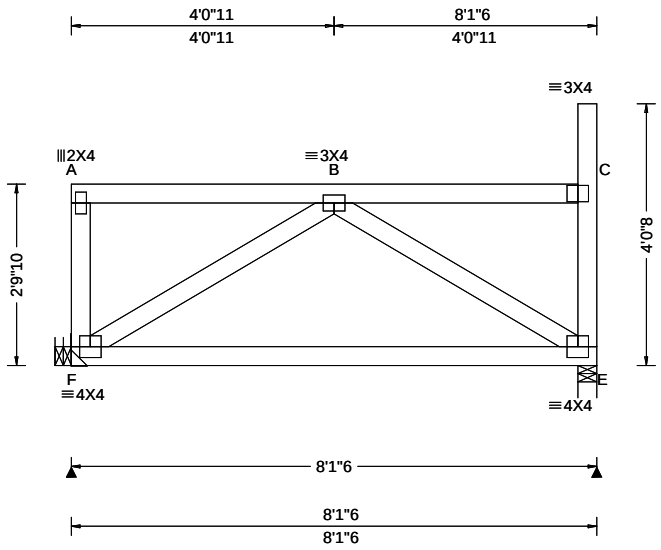
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37361 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T14	Cust: R 9316 JRef:1XfQ93160001 T206 DrwNo: 142.22.1735.56590 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.007	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.218
Max BC CSI: 0.610
Max Web CSI: 0.203

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/46	/92
E	507	/-	/-	/255	/47	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

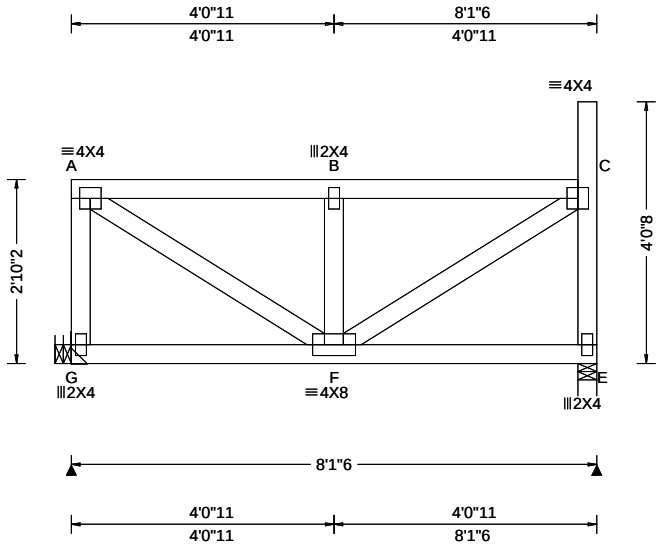
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37423 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T15	Cust: R 9316 JRef:1XfQ93160001 T212 DrwNo: 142.22.1735.58717 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.012	B	999	360
VERT(CL): 0.021	B	999	240
HORZ(LL): -0.002	C	-	-
HORZ(TL): 0.004	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.239
Max BC CSI: 0.340
Max Web CSI: 0.190

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	762	/-	/-	/-	/172	/-
E	607	/-	/-	/-	/114	/-

Wind reactions based on MWFRS
G Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	138	- 667	B - C	138	- 671

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	94	- 528	F - C	745	- 155
A - F	773	- 160	C - E	93	- 510

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 7.82
BC: From 30 plf at 0.00 to 30 plf at 8.11
BC: 144 lb Conc. Load at 0.27, 2.05, 4.05, 6.05

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

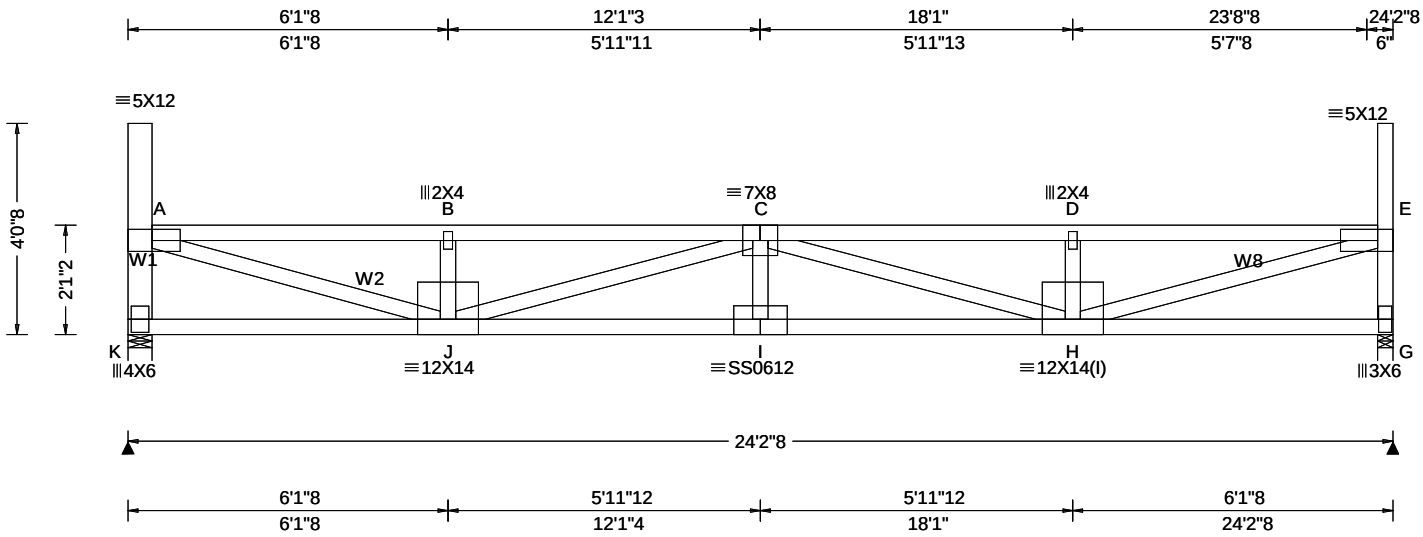
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37362 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T17	Cust: R 9316 JRef:1XfQ93160001 T175 DrwNo: 142.22.1736.01310 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.389 I	746	360
VERT(CL):	0.723 I	401	240
HORZ(LL):	0.061 A	-	-
HORZ(TL):	0.113 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.955
Max BC CSI: 0.730
Max Web CSI: 0.868

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/733	/84	/139
G	1553	/-	/-	/738	/86	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	258	- 4188	C - D	257	- 4194
B - C	257	- 4183	D - E	258	- 4199

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5416	- 324	I - H	5416	- 324

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	98	- 1371	C - H	138	- 1276
A - J	4154	- 260	H - E	4238	- 260
J - C	142	- 1288	E - G	100	- 1391

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E; W2, W8 2x4 SPF 2100f-1.8E;

Plating Notes

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.95	33.87	4.20
23.92	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.39" DL: 0.33". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

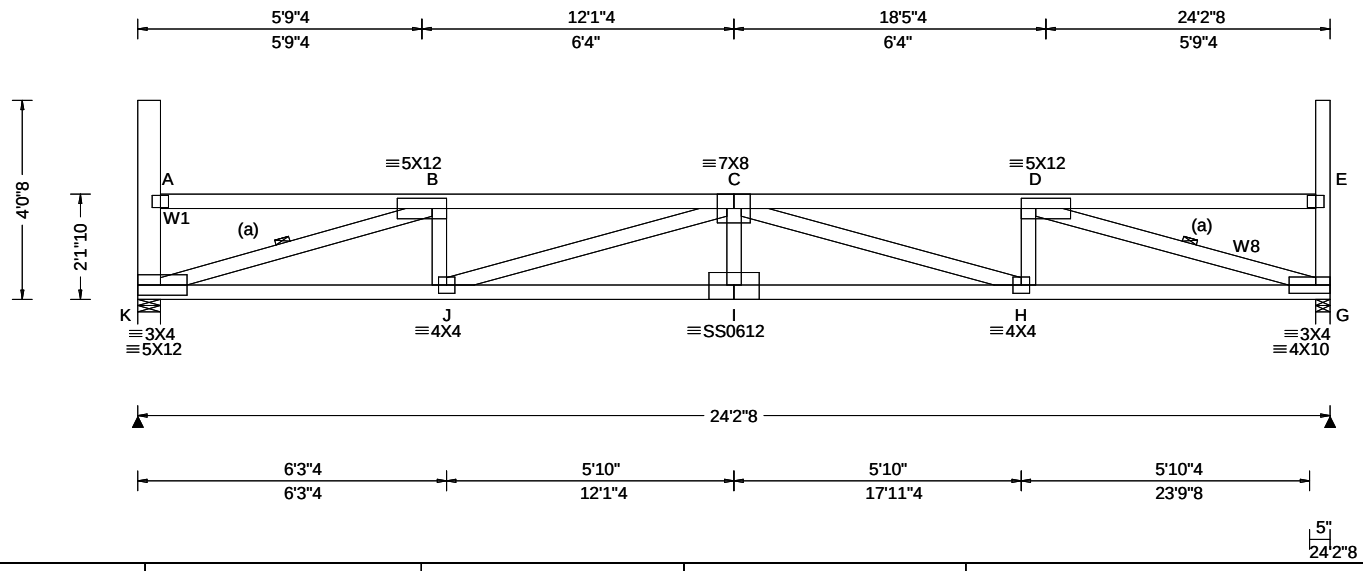
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37459 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T18	Cust: R 9316 JRef:1XfQ93160001 T180 DrwNo: 142.22.1736.03657 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.383	I	758	360
VERT(CL): 0.694	I	418	240
HORZ(LL): 0.081	G	-	-
HORZ(TL): 0.147	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.775
Max BC CSI: 0.722
Max Web CSI: 0.864

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1588	/-	/-	/733	/85	/138
G	1600	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	249	- 4243	C - D	249	- 4263

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4122	- 361	I - H	5460	- 321
J - I	5460	- 321	H - G	4140	- 216

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	252	- 4207	C - H	139	- 1256
B - J	771	- 2	H - D	786	- 1
J - C	141	- 1277	D - G	250	- 4277

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;
W8 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.91	32.49	4.38
23.92	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.31". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

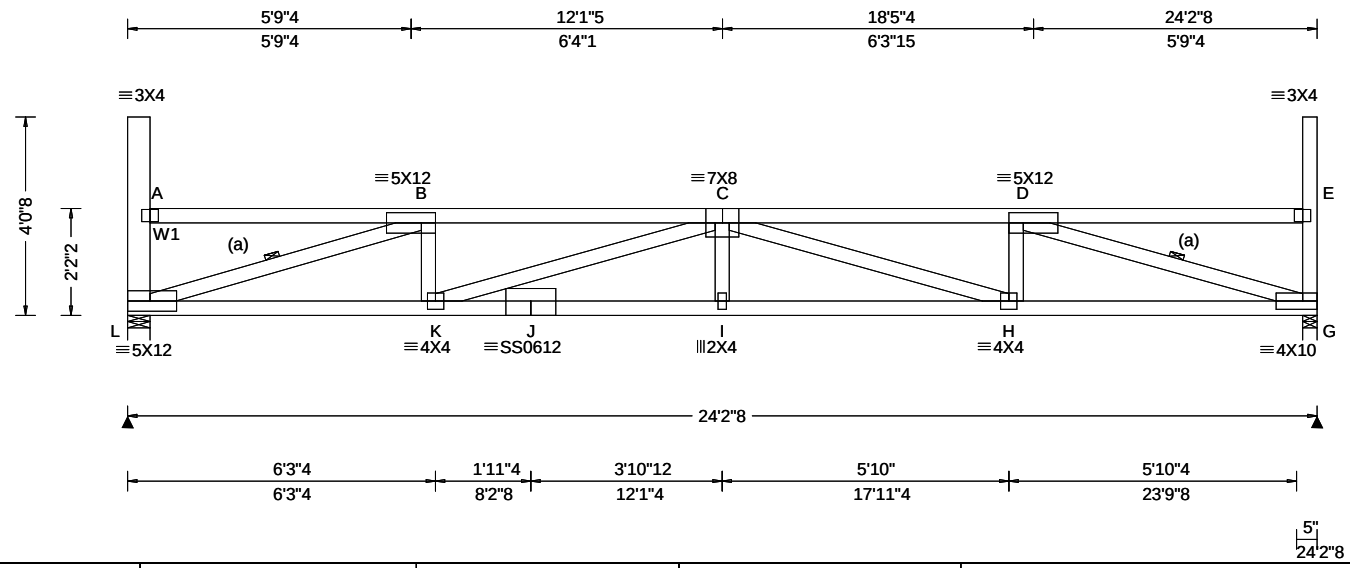
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37364 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T19	Cust: R 9316 JRef:1XfQ93160001 T171 DrwNo: 142.22.1736.06263 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.356 I	817	360
VERT(CL):	0.661 I	439	240
HORZ(LL):	0.075 G	-	-
HORZ(TL):	0.139 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.703
Max BC CSI: 0.691
Max Web CSI: 0.853

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/85	/136
G	1553	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	244	-4029	C - D	244	-4040

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3913	-354	I - H	5185	-316
K - J	5185	-316	H - G	3922	-213
J - I	5185	-316			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	247	-4002	C - H	136	-1204
B - K	760	-2	H - D	774	-1
K - C	137	-1216	D - G	244	-4056

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

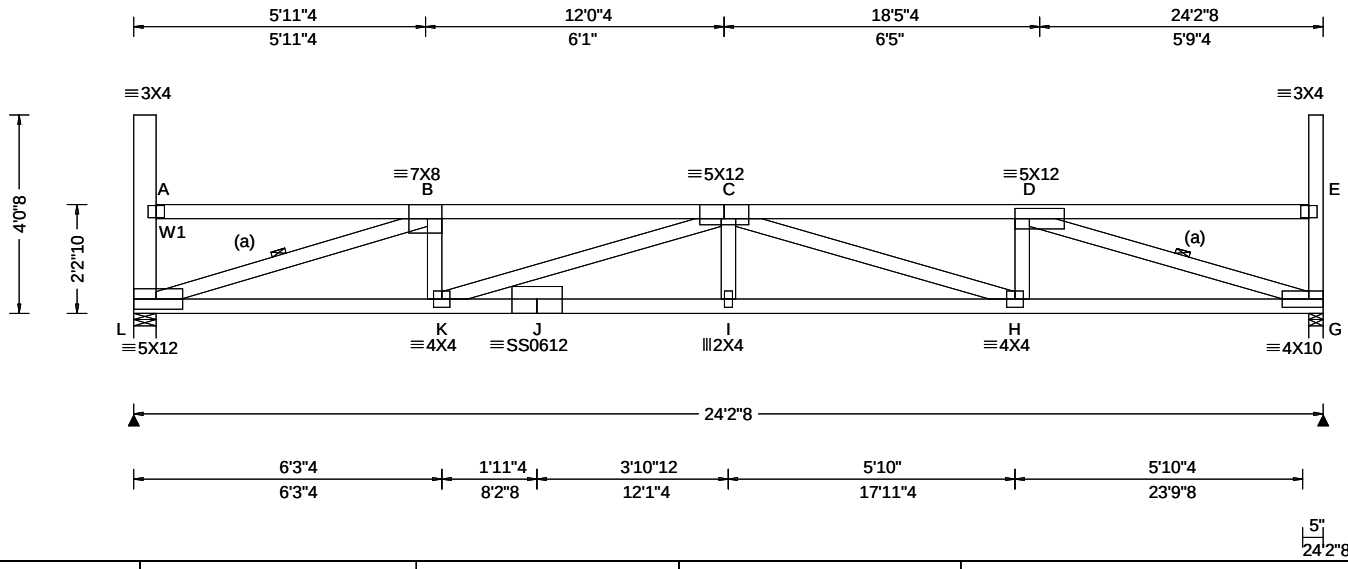
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37365 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T20	Cust: R 9316 JRef:1XfQ93160001 T179 DrwNo: 142.22.1736.08437 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.89 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.341	I	851	360
VERT(CL): 0.634	I	457	240
HORZ(LL): 0.073	G	-	-
HORZ(TL): 0.137	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.680
Max BC CSI: 0.681
Max Web CSI: 0.839

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/85	/135
G	1553	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	240	-3945	C - D	240	-3955

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3831	-349	I - H	5076	-311
K - J	5076	-311	H - G	3840	-211
J - I	5076	-311			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	243	-3927	C - H	133	-1180
B - K	760	-2	H - D	774	-1
K - C	134	-1191	D - G	240	-3980

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.82	29.72	4.79
23.92	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

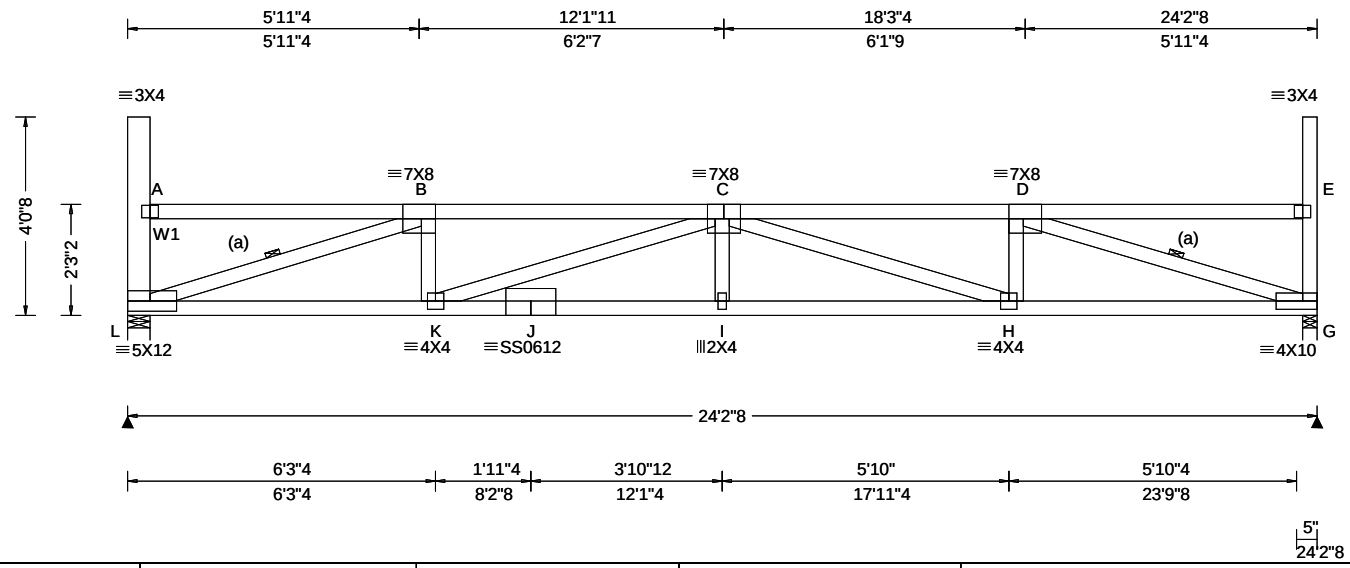
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37366 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T21	Cust: R 9316 JRef:1XfQ93160001 T183 DrwNo: 142.22.1736.11053 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.93 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.327 I	887	360
VERT(CL):	0.608 I	477	240
HORZ(LL):	0.072 G	-	-
HORZ(TL):	0.134 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.656
Max BC CSI: 0.671
Max Web CSI: 0.824

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1540	/-	/-	/732	/85	/134
G	1552	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	211	-3859	C - D	211	-3870

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3748	-342	I - H	4963	-304
K - J	4963	-304	H - G	3757	-207
J - I	4963	-304			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	238	-3851	C - H	129	-1153
B - K	759	-1	H - D	773	0
K - C	130	-1164	D - G	235	-3902

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

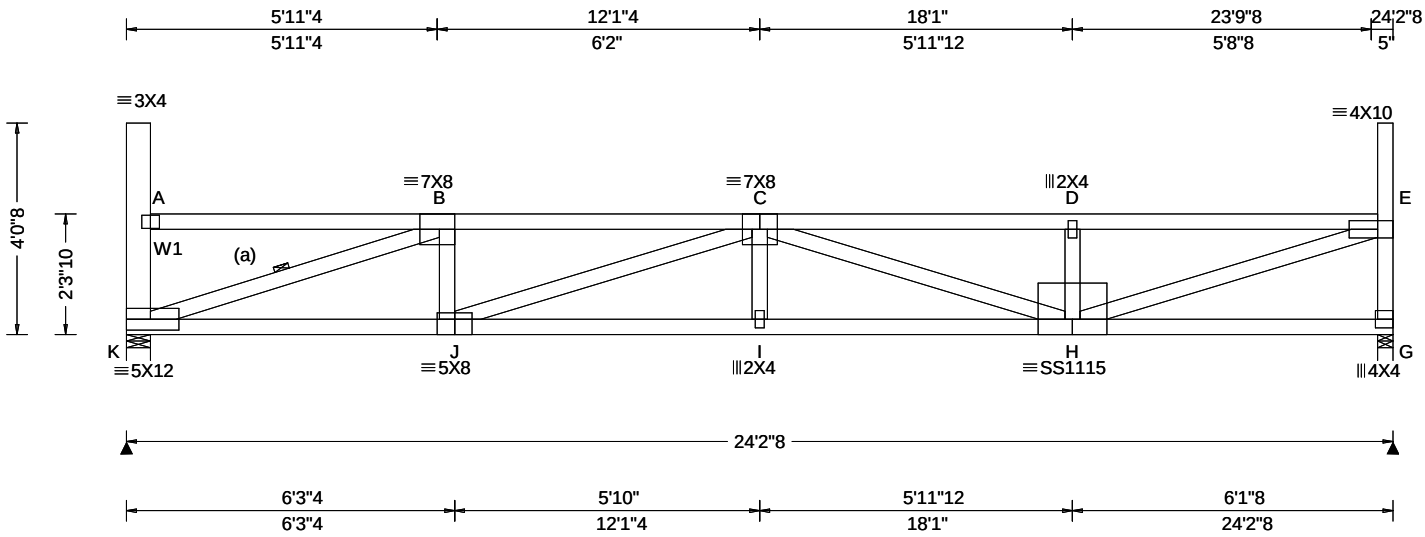
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37439 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T22	Cust: R 9316 JRef:1XfQ93160001 T174 DrwNo: 142.22.1736.13263 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.326 I 890 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.592 I 490 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.057 A - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.104 A - -
NCBCLL: 0.00	Mean Height: 21.97 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.876
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.565
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.967
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 14.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1587	/-	/-	/732	/85	/133
G	1599	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 1.6 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	208	- 3891	D - E	212	- 3875
C - D	211	- 3869			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3781	- 316	I - H	5015	- 298
J - I	5015	- 298			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	234	- 3895	D - H	79	- 388
B - J	768	0	H - E	3941	- 234
J - C	117	- 1189	E - G	101	- 1436
C - H	114	- 1209			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 DF-L 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.74	26.95	5.28
23.92	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

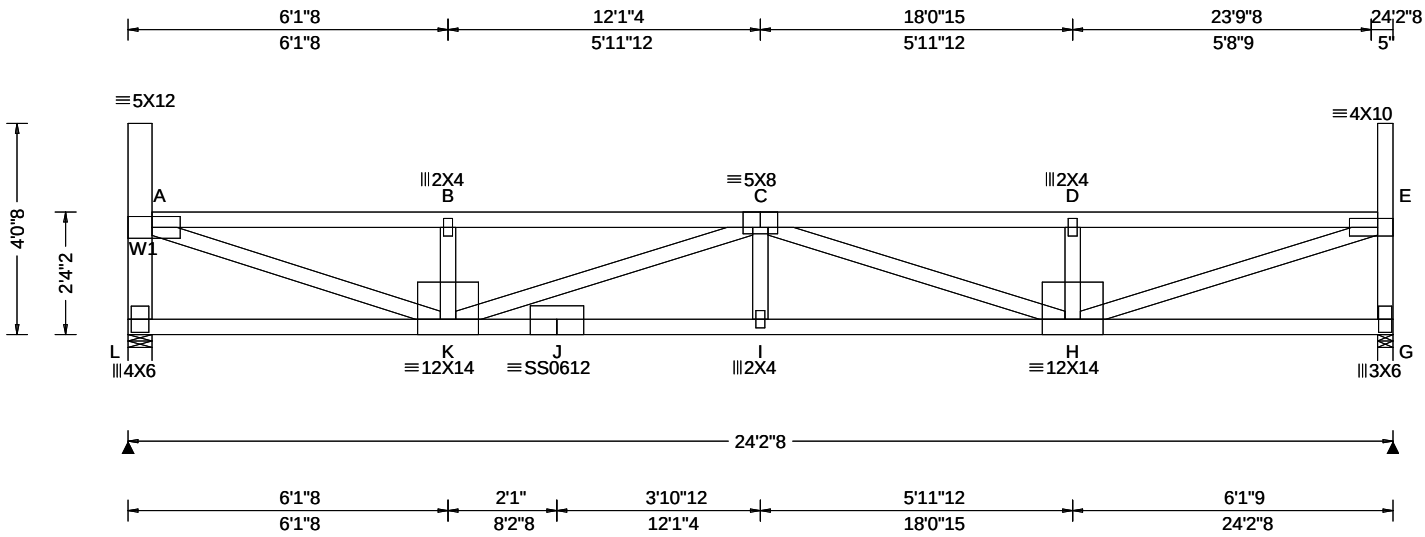
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37368 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T23	Cust: R 9316 JRef:1XfQ93160001 T184 DrwNo: 142.22.1736.26467 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.318 I	914	360
VERT(CL):	0.591 I	491	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.100 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.862
Max BC CSI: 0.651
Max Web CSI: 0.924

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/85	/132
G	1553	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	209	- 3686	C - D	209	- 3691
B - C	209	- 3681	D - E	209	- 3696

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4772	- 295	I - H	4772	- 295
J - I	4772	- 295			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	99	- 1372	C - H	111	- 1143
A - K	3690	- 231	H - E	3767	- 231
K - C	114	- 1153	E - G	101	- 1392

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.70	25.57	5.57
23.92	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

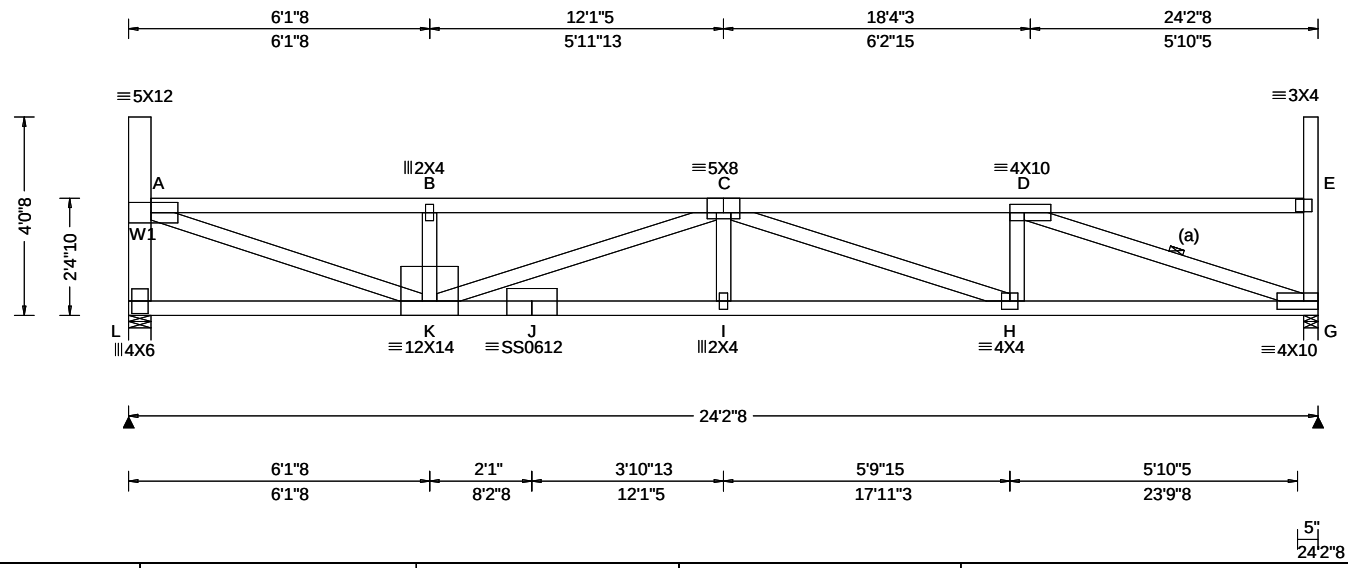
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37369 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T24	Cust: R 9316 JRef:1XfQ93160001 T176 DrwNo: 142.22.1736.28763 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.298 I	973	360
VERT(CL):	0.555 I	523	240
HORZ(LL):	0.054 G	-	-
HORZ(TL):	0.100 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.822
Max BC CSI: 0.647
Max Web CSI: 0.890

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/85	/131
G	1553	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	206	- 3615	C - D	202	- 3649
B - C	205	- 3610			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4678	- 292	I - H	4678	- 292
J - I	4678	- 292	H - G	3542	- 202

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1373	C - H	112	- 1093
A - K	3626	- 227	H - D	772	0
K - C	112	- 1131	D - G	225	- 3704

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.26". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

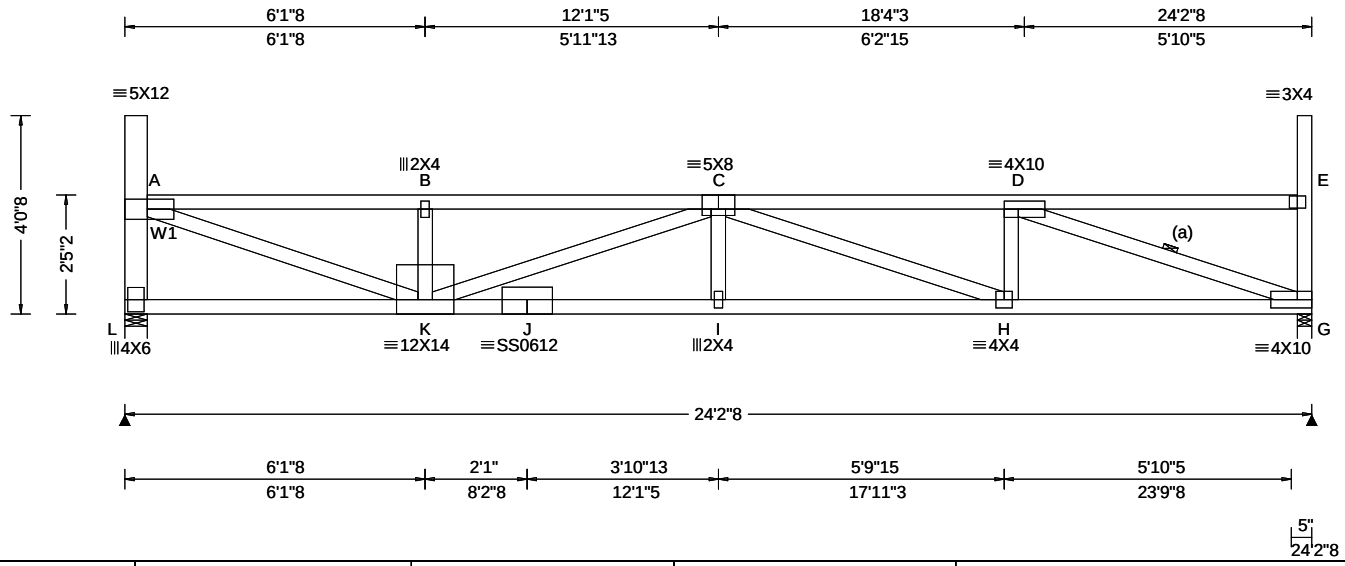
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37370 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T25	Cust: R 9316 JRef:1XfQ93160001 T172 DrwNo: 142.22.1736.31153 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.287 I	999	360
VERT(CL):	0.534 I	543	240
HORZ(LL):	0.053 G	-	-
HORZ(TL):	0.098 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.793
Max BC CSI: 0.641
Max Web CSI: 0.875

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/85	/129
G	1553	/-	/-	/737	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	202	- 3547	C - D	198	- 3579
B - C	201	- 3542			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4587	- 288	I - H	4587	- 288
J - I	4587	- 288	H - G	3475	- 199

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1373	C - H	109	- 1074
A - K	3564	- 223	H - D	772	0
K - C	110	- 1110	D - G	221	- 3642

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.61	22.80	5.50
23.92	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

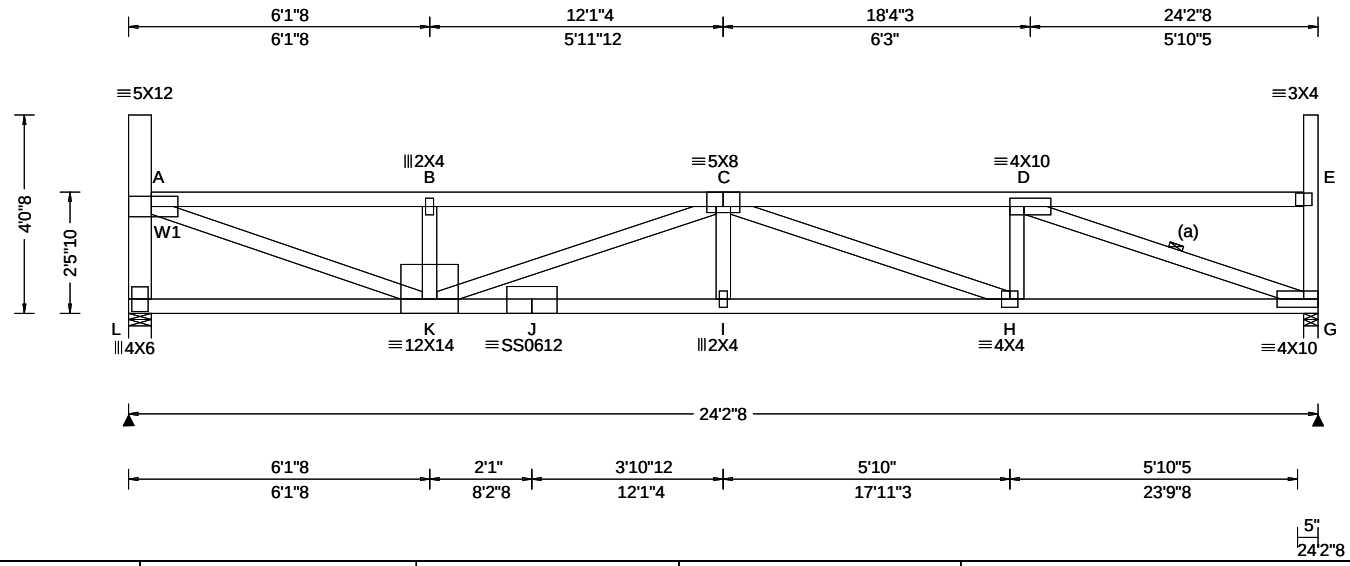
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37371 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T26	Cust: R 9316 JRef:1XfQ93160001 T173 DrwNo: 142.22.1736.33737 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.277	I	999	360
VERT(CL): 0.515	I	563	240
HORZ(LL): 0.052	G	-	-
HORZ(TL): 0.096	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.754
Max BC CSI: 0.635
Max Web CSI: 0.860

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/86	/128
G	1553	/-	/-	/737	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	199	- 3480	C - D	195	- 3512
B - C	198	- 3475			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4501	- 284	I - H	4501	- 284
J - I	4501	- 284	H - G	3410	- 197

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1374	C - H	107	- 1055
A - K	3504	- 219	H - D	772	0
K - C	107	- 1091	D - G	218	- 3582

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

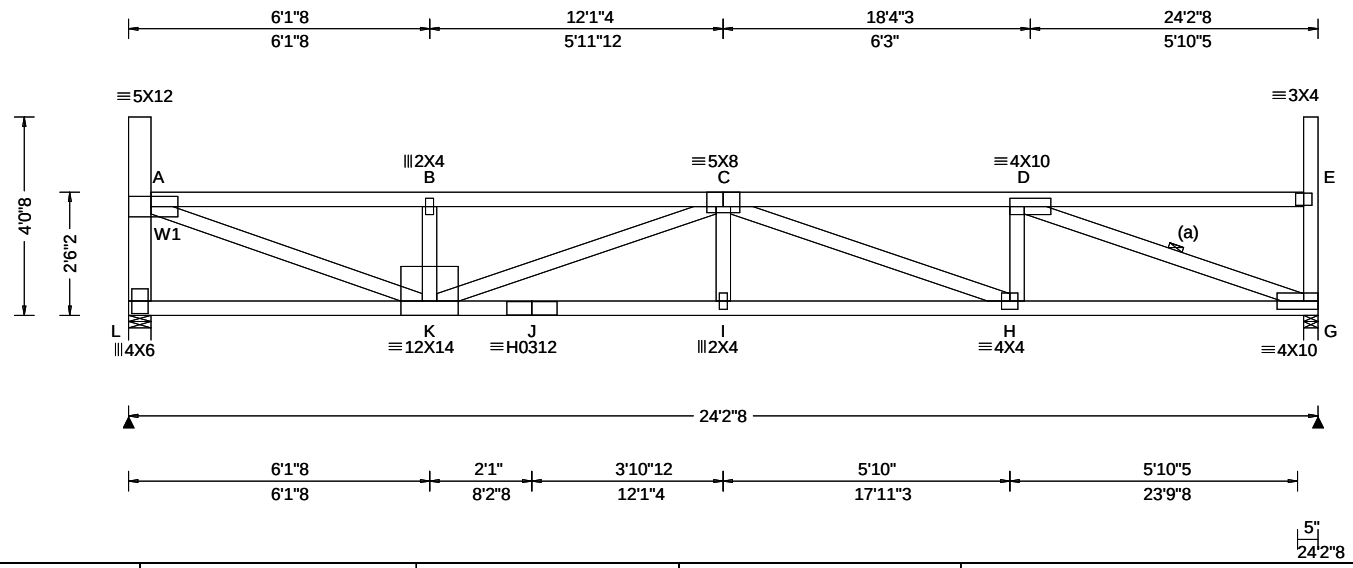
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37372 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T27	Cust: R 9316 JRef:1XfQ93160001 T157 DrwNo: 142.22.1736.36057 / FK 05/22/2022



Loading Criteria (psf)

TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria

Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.268	I	999	360
VERT(CL): 0.497	I	584	240
HORZ(LL): 0.051	G	-	-
HORZ(TL): 0.094	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.719
Max BC CSI: 0.629
Max Web CSI: 0.846

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/86	/127
G	1553	/-	/-	/737	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	196	- 3416	C - D	192	- 3448
B - C	195	- 3412			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4417	- 280	I - H	4417	- 280
J - I	4417	- 280	H - G	3347	- 195

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1374	C - H	105	- 1037
A - K	3447	- 215	H - D	772	0
K - C	105	- 1072	D - G	214	- 3524

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

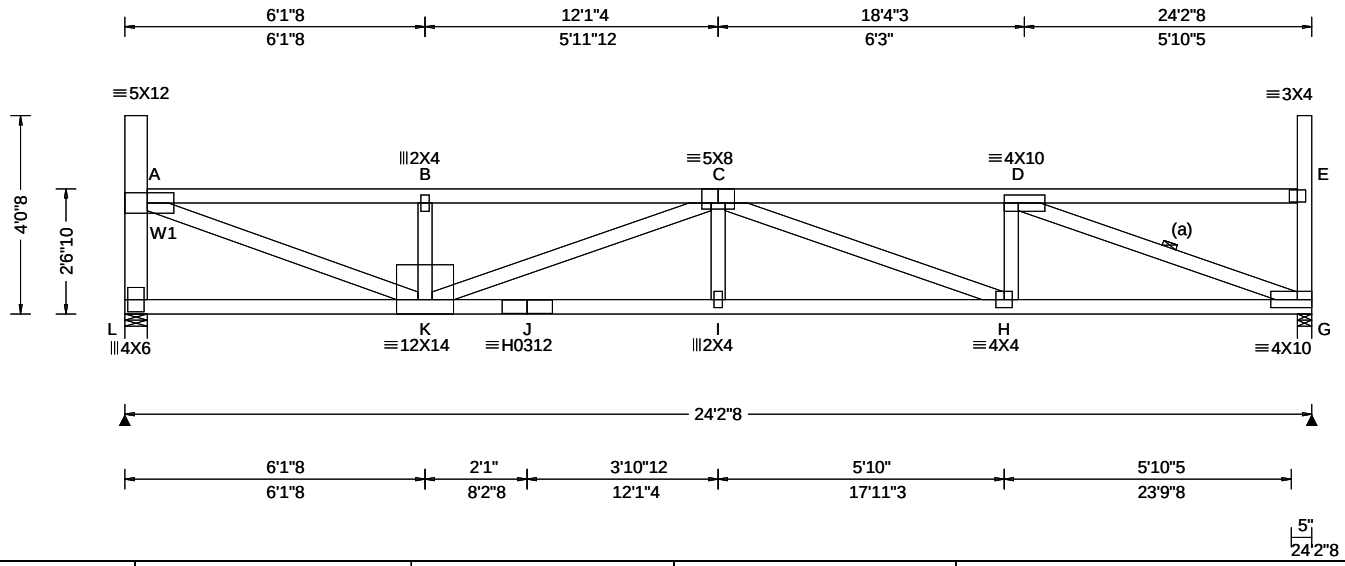
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37373 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T28	Cust: R 9316 JRef:1XfQ93160001 T181 DrwNo: 142.22.1736.38320 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.258	I	999	360
VERT(CL): 0.480	I	604	240
HORZ(LL): 0.050	G	-	-
HORZ(TL): 0.093	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.687
Max BC CSI: 0.623
Max Web CSI: 0.832

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/86	/126
G	1553	/-	/-	/736	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	193	- 3355	C - D	189	- 3386
B - C	192	- 3350			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4336	- 276	I - H	4336	- 276
J - I	4336	- 276	H - G	3287	- 193

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1374	C - H	103	- 1020
A - K	3391	- 212	H - D	772	0
K - C	103	- 1054	D - G	211	- 3469

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

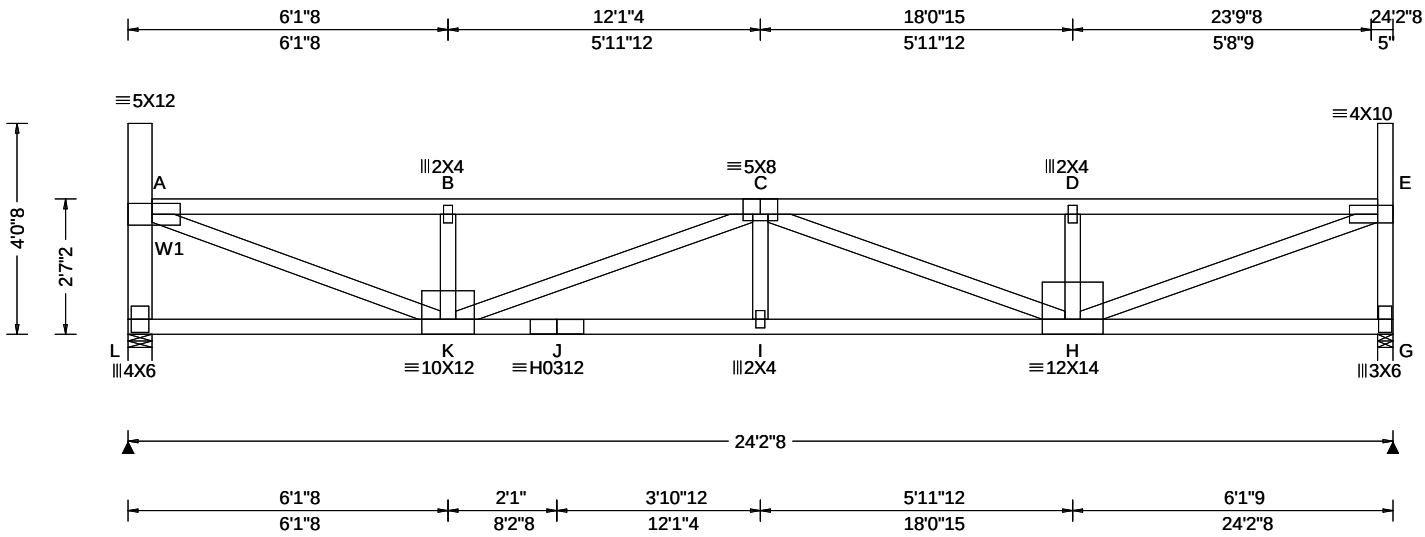
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37374 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T29	Cust: R 9316 JRef:1XfQ93160001 T182 DrwNo: 142.22.1736.41100 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.256 I	999	360
VERT(CL):	0.476 I	610	240
HORZ(LL):	0.049 A	-	-
HORZ(TL):	0.090 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.694
Max BC CSI: 0.608
Max Web CSI: 0.836

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/86	/125
G	1553	/-	/-	/736	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	190	- 3295	C - D	189	- 3299
B - C	189	- 3291	D - E	190	- 3304

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4259	- 272	I - H	4259	- 272
J - I	4259	- 272			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	101	- 1374	C - H	97	- 1029
A - K	3338	- 209	H - E	3407	- 209
B - K	80	- 377	D - H	80	- 381
K - C	100	- 1038	E - G	102	- 1394

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.45	17.27	4.16
23.92	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

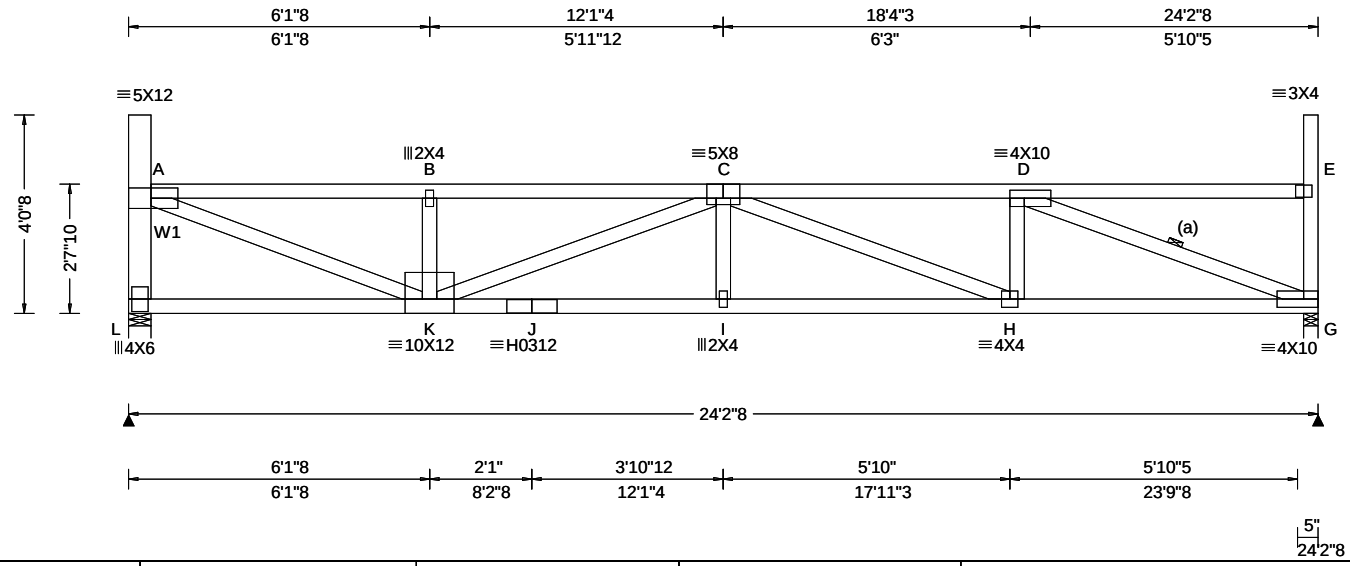
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37375 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T30	Cust: R 9316 JRef:1XfQ93160001 T178 DrwNo: 142.22.1736.43433 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.242 I	999	360
VERT(CL):	0.449 I	646	240
HORZ(LL):	0.048 G	-	-
HORZ(TL):	0.089 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.649
Max BC CSI: 0.612
Max Web CSI: 0.806

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/86	/123
G	1553	/-	/-	/736	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	187	-3238	C - D	183	-3267
B - C	186	-3233			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4184	-269	I - H	4184	-269
J - I	4184	-269	H - G	3172	-189

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	101	-1375	C - H	98	-988
A - K	3287	-205	H - D	772	0
B - K	80	-377	D - G	205	-3364
K - C	98	-1021			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

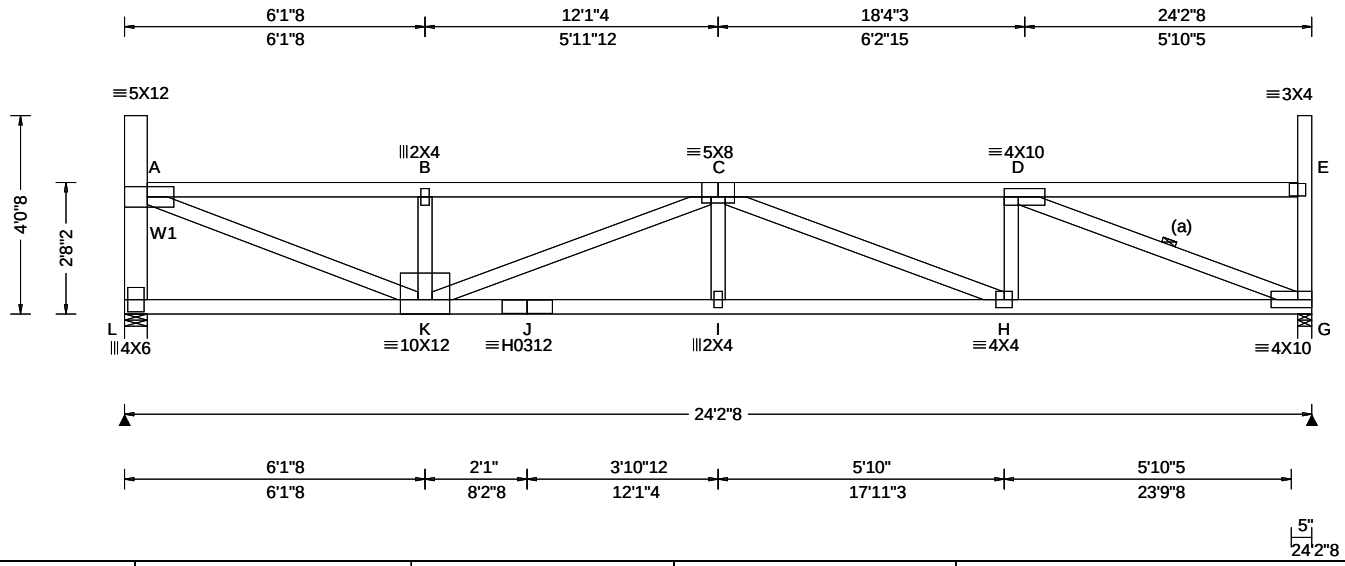
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37376 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T31	Cust: R 9316 JRef:1XfQ93160001 T185 DrwNo: 142.22.1736.45693 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.234 I	999	360
VERT(CL):	0.435 I	668	240
HORZ(LL):	0.047 G	-	-
HORZ(TL):	0.088 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.637
Max BC CSI: 0.606
Max Web CSI: 0.794

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/86	/122
G	1553	/-	/-	/736	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	184	- 3183	C - D	180	- 3211
B - C	183	- 3178			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4111	- 266	I - H	4111	- 266
J - I	4111	- 266	H - G	3118	- 187

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	101	- 1375	C - H	96	- 972
A - K	3237	- 202	H - D	772	0
B - K	80	- 379	D - G	202	- 3314
K - C	96	- 1005			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.36	14.50	3.50
23.92	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

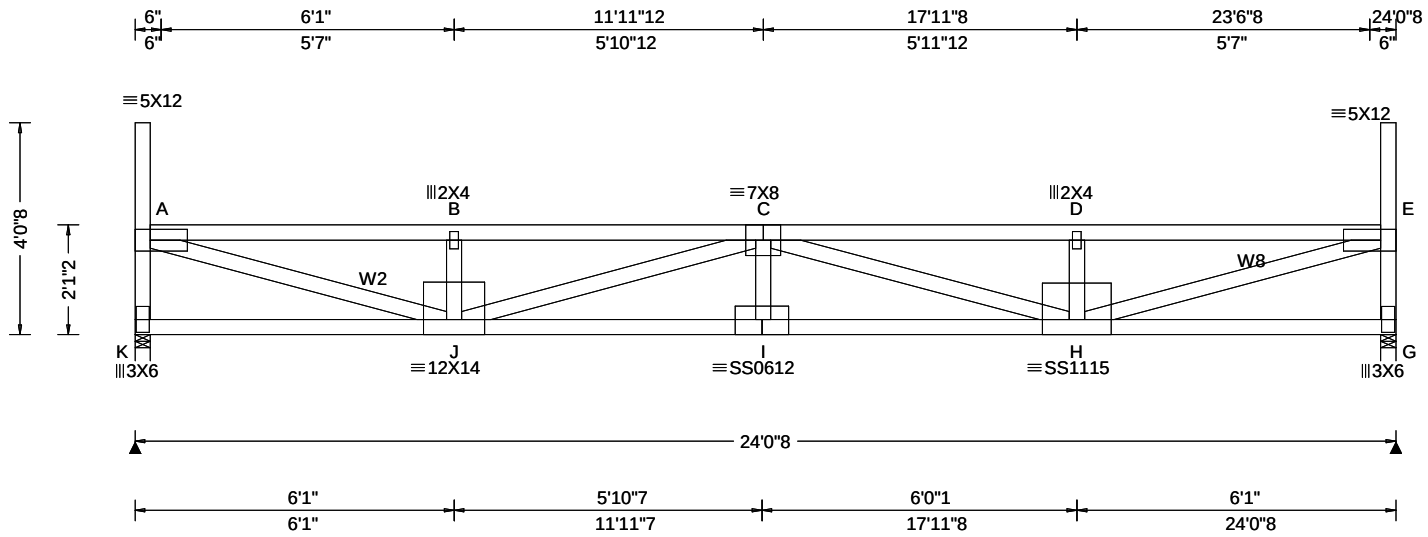
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37377 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T33	Cust: R 9316 JRef:1XfQ93160001 T191 DrwNo: 142.22.1736.49590 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.380	I	759	360
VERT(CL): 0.706	I	408	240
HORZ(LL): 0.059	A	-	-
HORZ(TL): 0.110	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.932
Max BC CSI: 0.715
Max Web CSI: 0.844

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/733	/86	/139
G	1542	/-	/-	/733	/86	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	255	- 4139	C - D	254	- 4138
B - C	254	- 4133	D - E	255	- 4143

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5337	- 321	I - H	5337	- 321

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	99	- 1381	C - H	138	- 1252
A - J	4178	- 256	H - E	4183	- 257
J - C	142	- 1258	E - G	99	- 1382

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2,W8 2x4 SPF 2100f-1.8E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.95	33.87	4.20
23.75	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.33". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

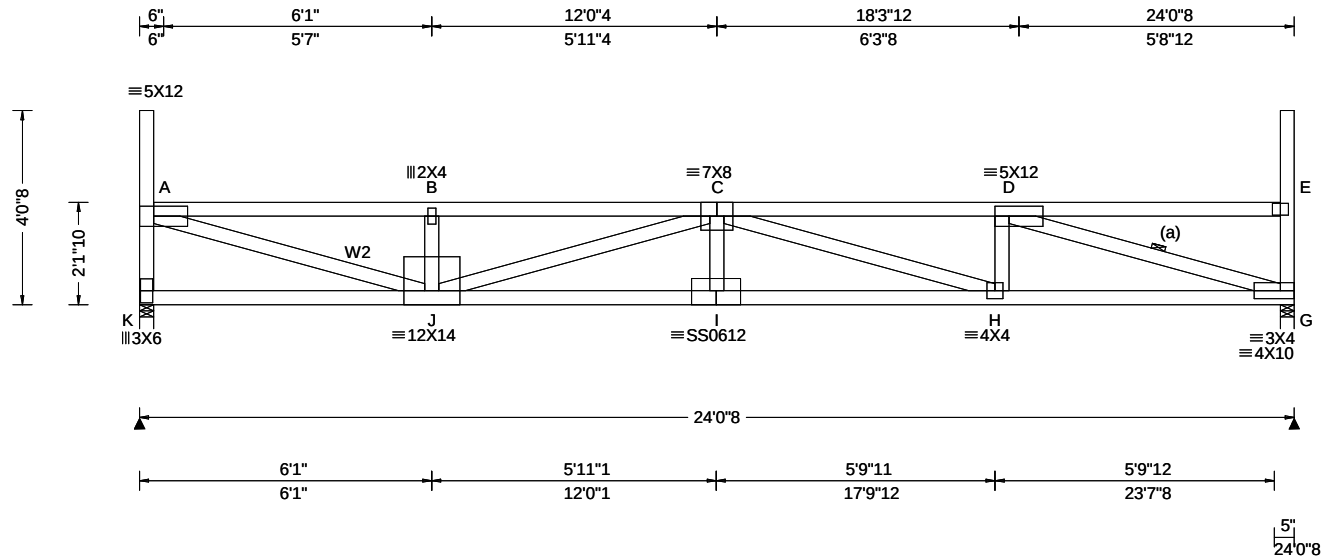
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37378 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T34	Cust: R 9316 JRef:1XfQ93160001 T200 DrwNo: 142.22.1736.51790 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.363 I 795 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.674 I 428 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.059 G - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.110 G - -
NCBCLL: 0.00	Mean Height: 21.80 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.916
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.703
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.849
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1542	/-	/-	/733	/86	/138
G	1542	/-	/-	/733	/86	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	250	- 4051	C - D	247	- 4073
B - C	249	- 4046			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5221	- 317	H - G	3954	- 214
I - H	5221	- 317			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	100	- 1382	C - H	138	- 1205
A - J	4097	- 251	H - D	767	- 2
J - C	140	- 1231	D - G	247	- 4084

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

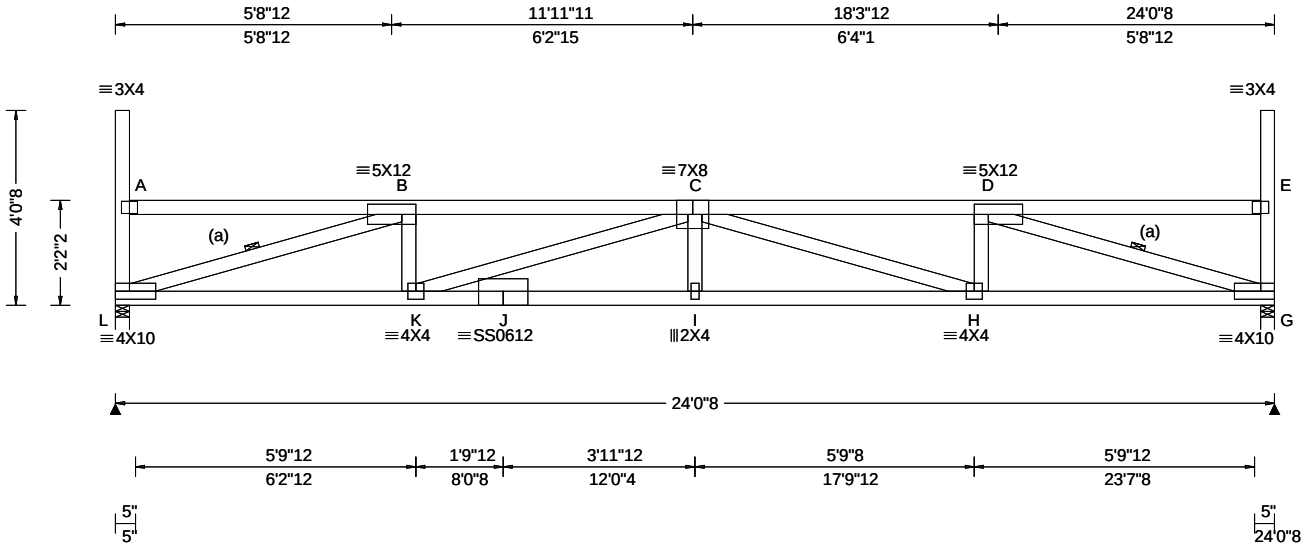
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37379 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T35	Cust: R 9316 JRef:1XfQ93160001 T205 DrwNo: 142.22.1736.54197 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.346	I	833	360
VERT(CL): 0.643	I	448	240
HORZ(LL): 0.073	G	-	-
HORZ(TL): 0.136	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.679
Max BC CSI: 0.683
Max Web CSI: 0.833

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/86	/136
G	1541	/-	/-	/732	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	240	- 3982	C - D	240	- 3981

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3864	- 352	I - H	5103	- 310
K - J	5103	- 310	H - G	3864	- 209
J - I	5103	- 310			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	241	- 4000	C - H	134	- 1180
B - K	768	- 1	H - D	767	- 1
K - C	136	- 1179	D - G	240	- 3999

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.35" DL: 0.30". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

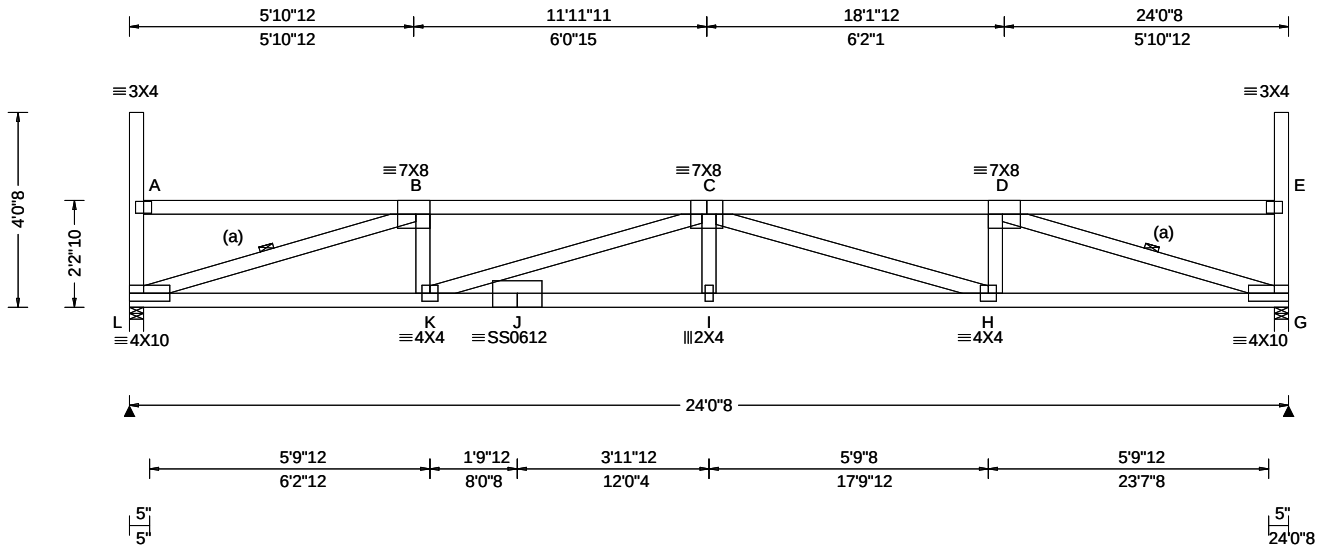
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37380 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T36	Cust: R 9316 JRef:1XfQ93160001 T213 DrwNo: 142.22.1736.56857 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.89 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.332 I	868	360
VERT(CL):	0.617 I	467	240
HORZ(LL):	0.072 G	-	-
HORZ(TL):	0.134 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.656
Max BC CSI: 0.673
Max Web CSI: 0.820

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/86	/135
G	1541	/-	/-	/732	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	236	-3898	C - D	236	-3897

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3783	-346	I - H	4994	-305
K - J	4994	-305	H - G	3782	-207
J - I	4994	-305			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	236	-3924	C - H	131	-1156
B - K	768	-1	H - D	767	-1
K - C	133	-1155	D - G	236	-3923

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.82	29.72	4.79
23.75	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

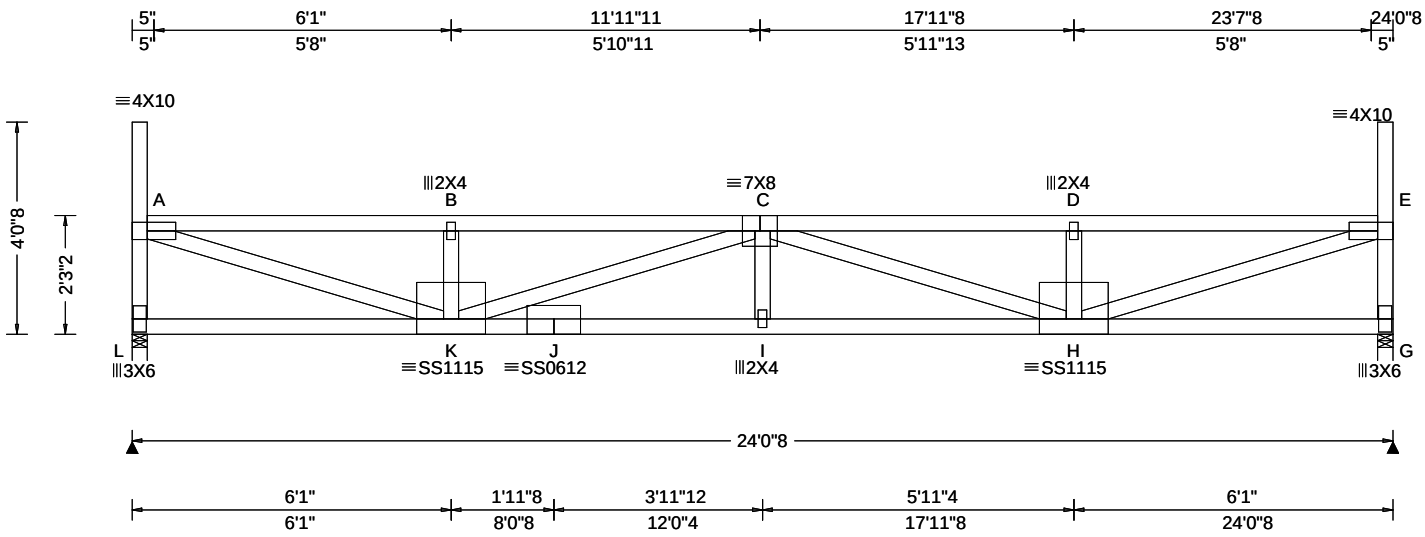
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37381 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T37	Cust: R 9316 JRef:1XfQ93160001 T204 DrwNo: 142.22.1736.59167 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.93 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.336 I	859	360
VERT(CL):	0.624 I	462	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.101 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.869
Max BC CSI: 0.662
Max Web CSI: 0.945

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/86	/134
G	1541	/-	/-	/732	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	213	- 3791	C - D	212	- 3785
B - C	212	- 3786	D - E	213	- 3790

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4892	- 298	I - H	4892	- 298
J - I	4892	- 298			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1381	C - H	124	- 1166
A - K	3851	- 235	H - E	3850	- 235
K - C	128	- 1165	E - G	100	- 1380

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.78	28.34	5.03
23.75	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

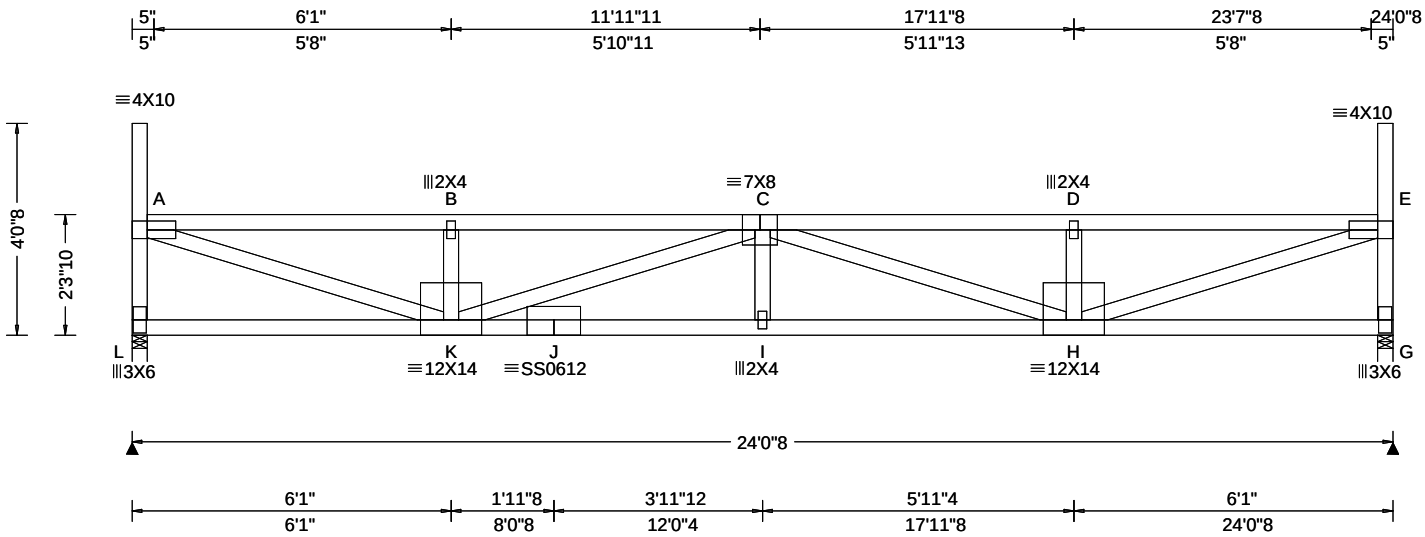
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37382 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T38	Cust: R 9316 JRef:1XfQ93160001 T209 DrwNo: 142.22.1737.01483 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.97 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.323	I	893	360
VERT(CL): 0.600	I	480	240
HORZ(LL): 0.053	A	-	-
HORZ(TL): 0.099	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.854
Max BC CSI: 0.652
Max Web CSI: 0.928

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/86	/133
G	1541	/-	/-	/732	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	209	- 3715	C - D	208	- 3709
B - C	208	- 3710	D - E	209	- 3714

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4792	- 293	I - H	4792	- 293
J - I	4792	- 293			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1381	C - H	112	- 1143
A - K	3781	- 230	H - E	3780	- 231
K - C	116	- 1142	E - G	100	- 1381

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.74	26.95	5.28
23.75	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

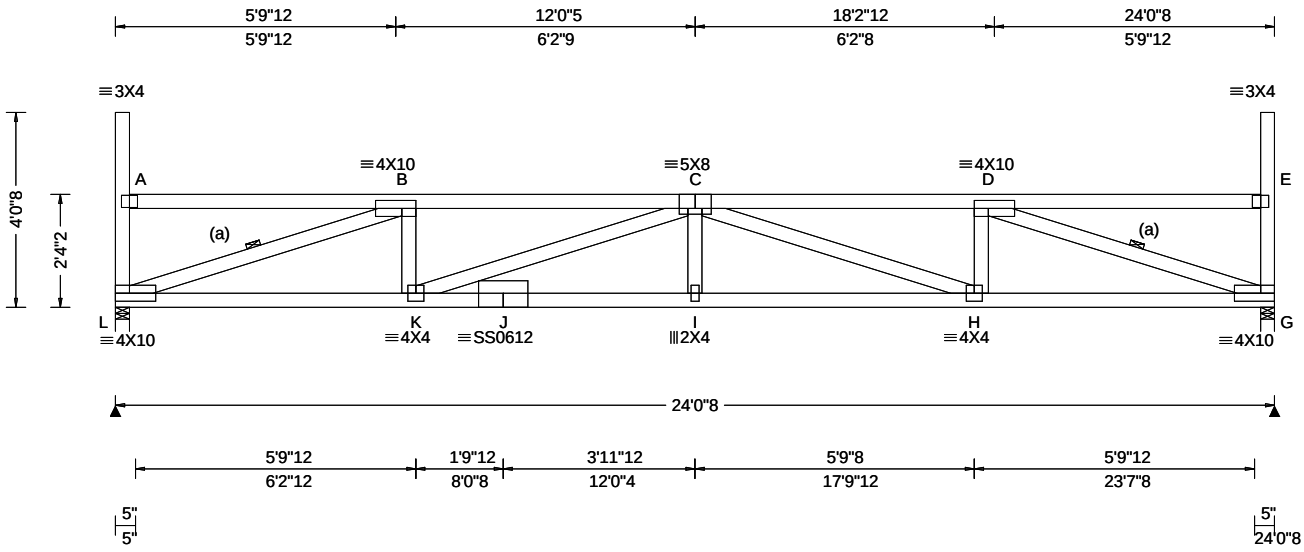
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37383 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T39	Cust: R 9316 JRef:1XfQ93160001 T199 DrwNo: 142.22.1737.03983 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.296 I	976	360
VERT(CL):	0.549 I	525	240
HORZ(LL):	0.068 G	-	-
HORZ(TL):	0.126 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.598
Max BC CSI: 0.650
Max Web CSI: 0.783

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/132
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	202	-3671	C - D	202	-3670

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3563	-310	I - H	4703	-294
K - J	4703	-294	H - G	3562	-201
J - I	4703	-294			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	226	-3721	C - H	115	-1096
B - K	769	0	H - D	769	0
K - C	117	-1095	D - G	226	-3719

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.70	25.57	5.57
23.75	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

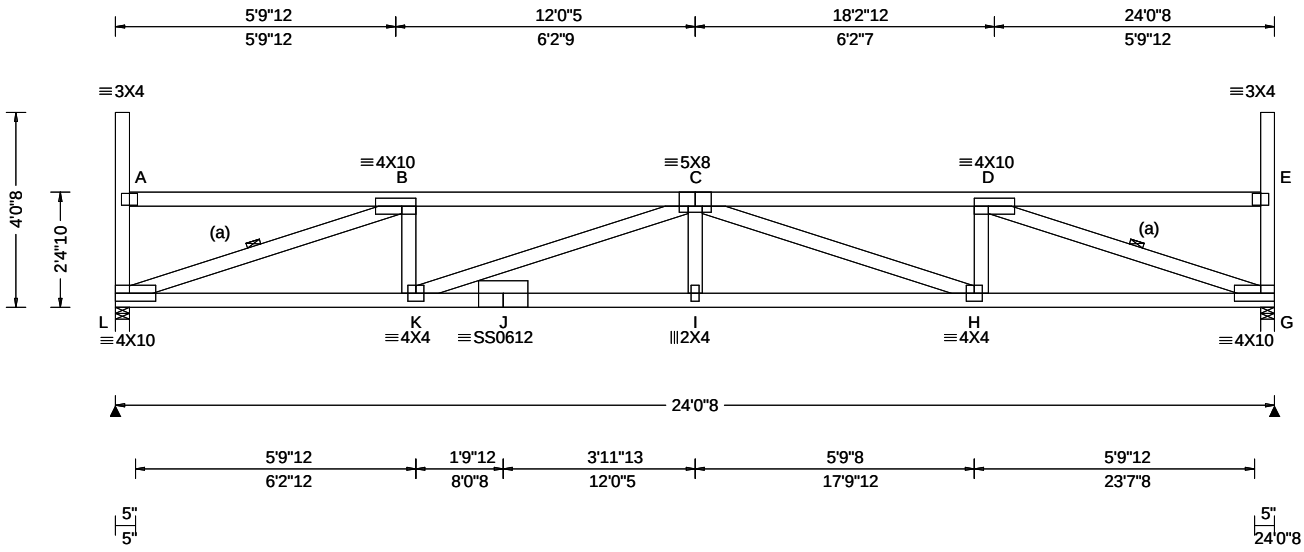
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37384 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T40	Cust: R 9316 JRef:1XfQ93160001 T211 DrwNo: 142.22.1737.06173 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.285 I	999	360
VERT(CL):	0.529 I	545	240
HORZ(LL):	0.066 G	-	-
HORZ(TL):	0.123 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.583
Max BC CSI: 0.643
Max Web CSI: 0.772

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/131
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	199	-3600	C - D	199	-3598

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3494	-305	I - H	4611	-290
K - J	4611	-290	H - G	3492	-199
J - I	4611	-290			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	222	-3657	C - H	113	-1077
B - K	769	0	H - D	769	0
K - C	114	-1075	D - G	222	-3655

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

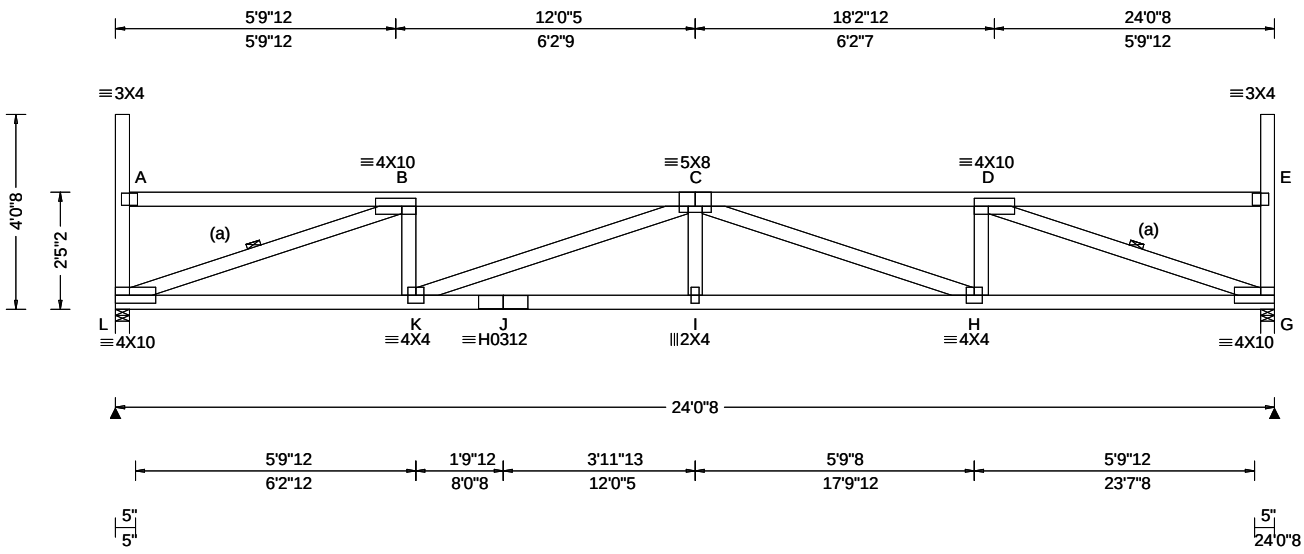
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37385 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T41	Cust: R 9316 JRef:1XfQ93160001 T201 DrwNo: 142.22.1737.08863 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.274 I	999	360
VERT(CL):	0.510 I	565	240
HORZ(LL):	0.065 G	-	-
HORZ(TL):	0.121 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.568
Max BC CSI: 0.637
Max Web CSI: 0.761

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/129
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	195	- 3531	C - D	196	- 3530

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3427	- 320	I - H	4522	- 286
K - J	4522	- 286	H - G	3426	- 197
J - I	4522	- 286			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	219	- 3595	C - H	118	- 1058
B - K	769	- 1	H - D	769	0
K - C	120	- 1056	D - G	218	- 3594

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

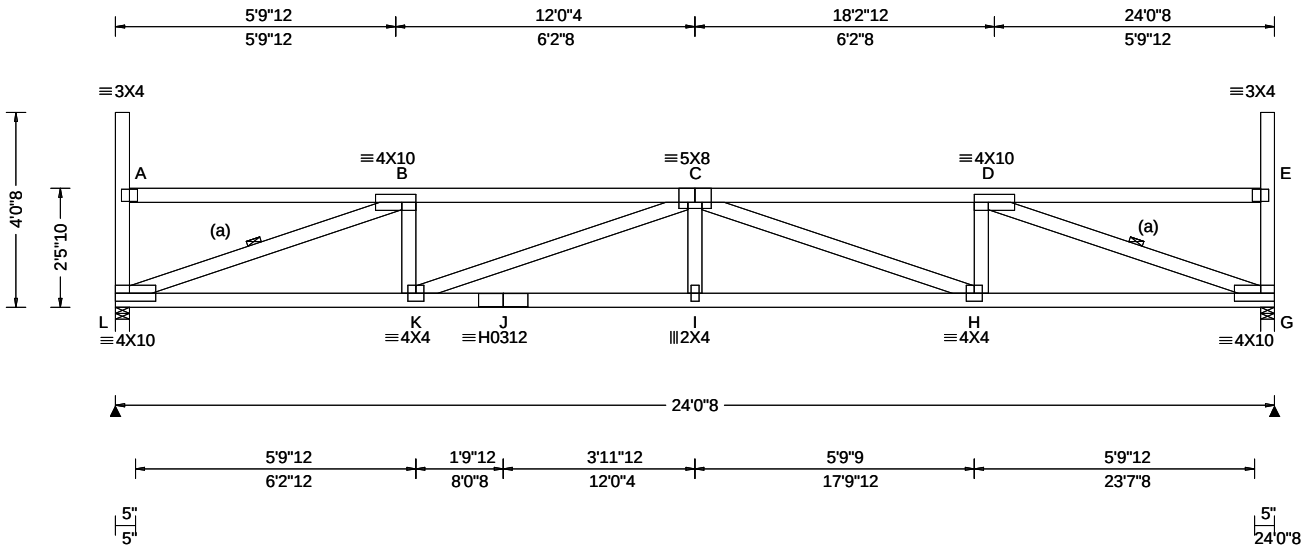
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37386 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T42	Cust: R 9316 JRef:1XfQ93160001 T195 DrwNo: 142.22.1737.11367 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.265 I	999	360
VERT(CL):	0.492 I	586	240
HORZ(LL):	0.064 G	-	-
HORZ(TL):	0.119 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.553
Max BC CSI: 0.631
Max Web CSI: 0.751

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/128
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	192	-3465	C - D	193	-3464

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3363	-315	I - H	4437	-282
K - J	4437	-282	H - G	3362	-195
J - I	4437	-282			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	215	-3536	C - H	116	-1039
B - K	769	0	H - D	769	0
K - C	117	-1038	D - G	215	-3535

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.57	21.42	5.16
23.75	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

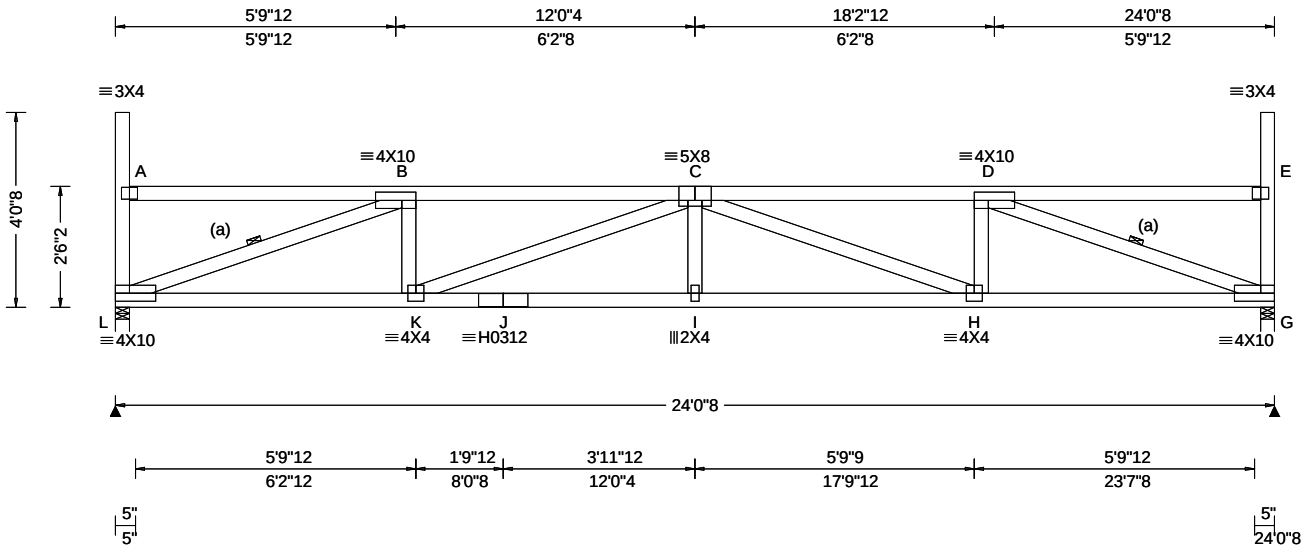
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37387 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T43	Cust: R 9316 JRef:1XfQ93160001 T198 DrwNo: 142.22.1737.14090 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.255 I	999	360
VERT(CL):	0.475 I	607	240
HORZ(LL):	0.063 G	-	-
HORZ(TL):	0.116 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.540
Max BC CSI: 0.625
Max Web CSI: 0.741

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/127
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	211	-3401	C - D	211	-3400

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3301	-310	I - H	4354	-278
K - J	4354	-278	H - G	3300	-192
J - I	4354	-278			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	212	-3479	C - H	113	-1022
B - K	769	0	H - D	769	0
K - C	114	-1021	D - G	212	-3478

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.53	20.04	4.83
23.75	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

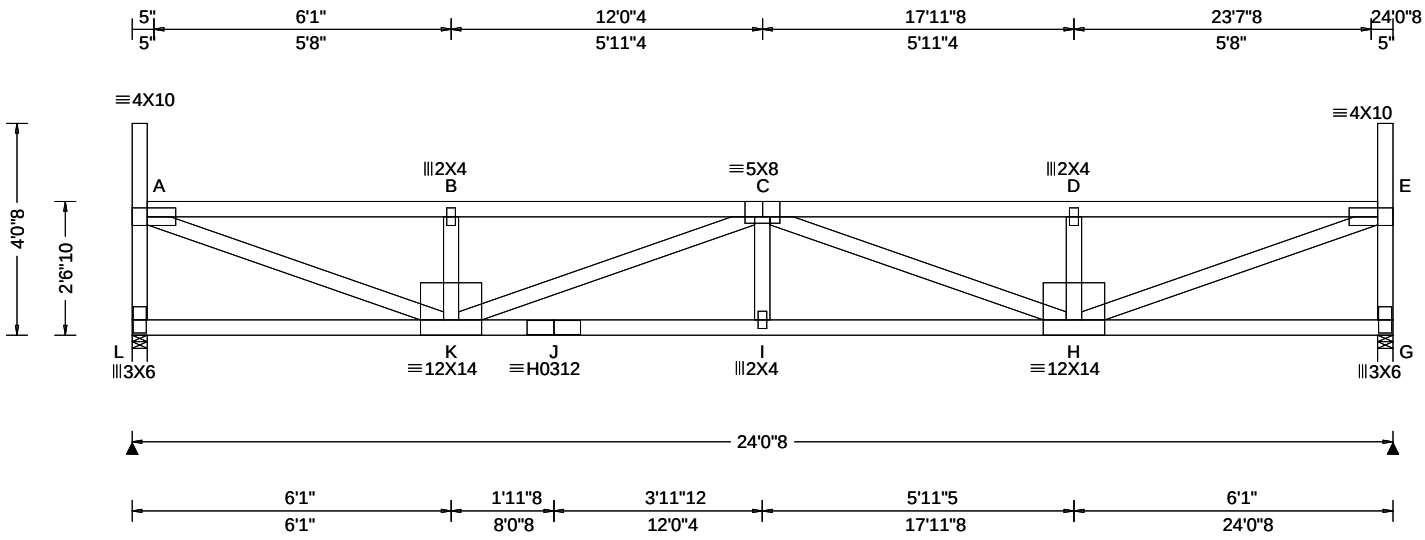
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37388 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T44	Cust: R 9316 JRef:1XfQ93160001 T202 DrwNo: 142.22.1737.16577 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.260	I	999	360
VERT(CL): 0.482	I	597	240
HORZ(LL): 0.048	A	-	-
HORZ(TL): 0.089	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.693
Max BC CSI: 0.608
Max Web CSI: 0.838

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/126
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	211	-3318	C - D	211	-3312
B - C	211	-3313	D - E	211	-3317

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4276	-272	I - H	4276	-272
J - I	4276	-272			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	102	-1385	C - H	107	-1032
A - K	3417	-209	H - E	3416	-210
B - K	79	-376	D - H	80	-376
K - C	110	-1030	E - G	102	-1385

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.49	18.65	4.50
23.75	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

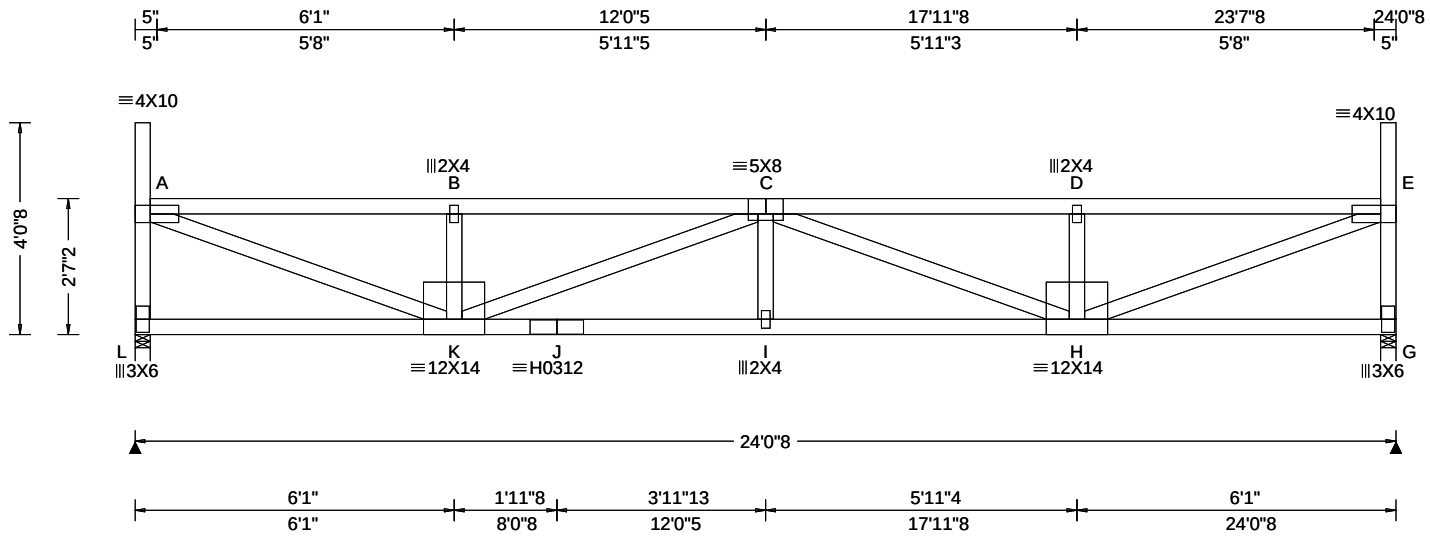
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37389 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T45	Cust: R 9316 JRef:1XfQ93160001 T196 DrwNo: 142.22.1737.19050 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.251 I	999	360
VERT(CL):	0.466 I	618	240
HORZ(LL):	0.047 A	-	-
HORZ(TL):	0.088 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.676
Max BC CSI: 0.602
Max Web CSI: 0.825

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/87	/125
G	1542	/-	/-	/731	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	208	- 3260	C - D	207	- 3253
B - C	208	- 3255	D - E	208	- 3258

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4200	- 269	I - H	4200	- 269
J - I	4200	- 269			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	102	- 1385	C - H	105	- 1015
A - K	3364	- 206	D - H	80	- 378
B - K	80	- 378	H - E	3362	- 207
K - C	108	- 1013	E - G	102	- 1385

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.45	17.27	4.16
23.75	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

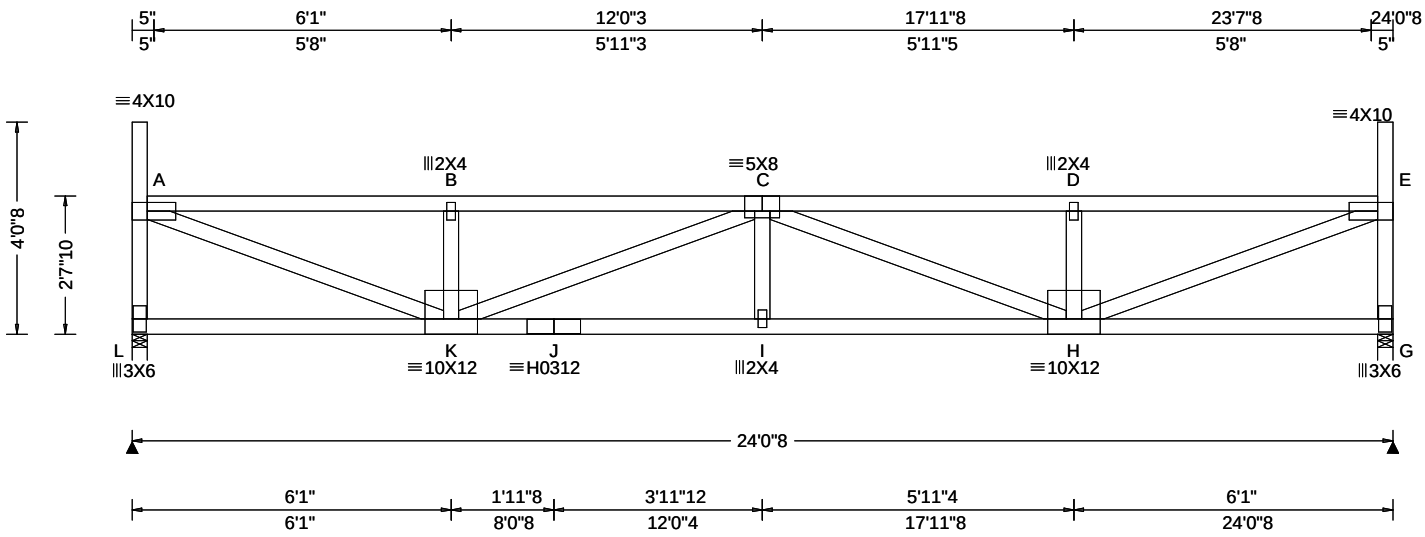
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37390 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T46	Cust: R 9316 JRef:1XfQ93160001 T207 DrwNo: 142.22.1737.23047 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.243 I	999	360
VERT(CL):	0.451 I	639	240
HORZ(LL):	0.046 A	-	-
HORZ(TL):	0.086 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.663
Max BC CSI: 0.597
Max Web CSI: 0.813

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/88	/123
G	1542	/-	/-	/731	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	205	- 3203	C - D	204	- 3197
B - C	204	- 3198	D - E	205	- 3202

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4125	- 265	I - H	4125	- 265
J - I	4125	- 265			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	102	- 1385	C - H	103	- 997
A - K	3311	- 203	H - E	3311	- 203
B - K	80	- 380	D - H	80	- 380
K - C	105	- 997	E - G	102	- 1385

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.41	15.89	3.83
23.75	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

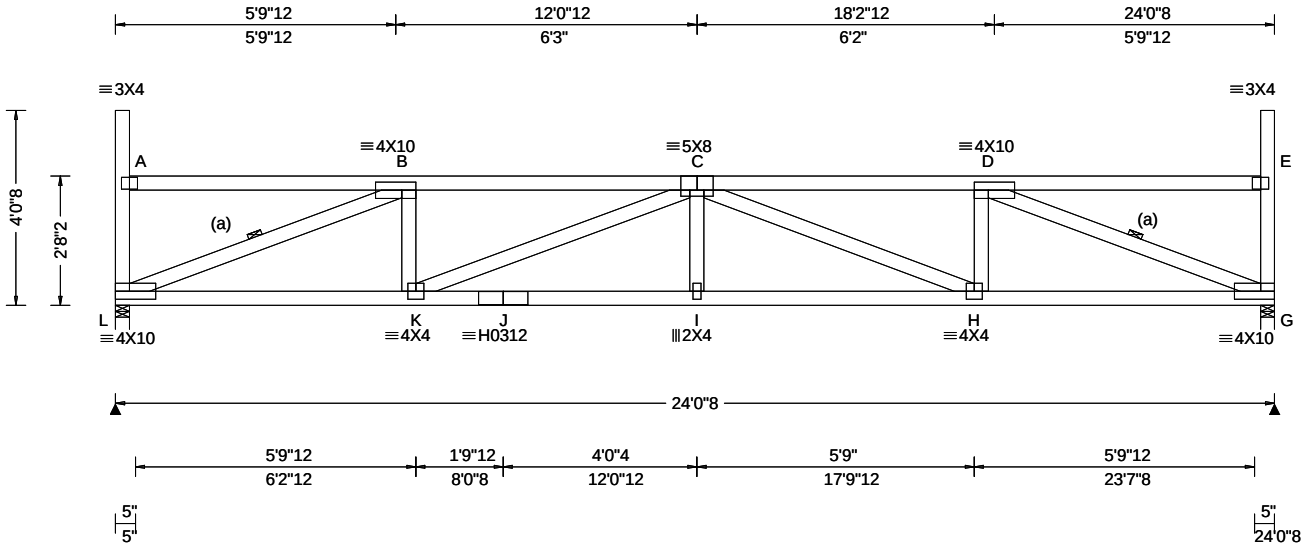
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37391 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T47	Cust: R 9316 JRef:1XfQ93160001 T203 DrwNo: 142.22.1737.25340 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.223 I	999	360
VERT(CL):	0.415 I	694	240
HORZ(LL):	0.058 G	-	-
HORZ(TL):	0.108 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.516
Max BC CSI: 0.604
Max Web CSI: 0.706

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/88	/122
G	1542	/-	/-	/731	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	199	- 3169	C - D	199	- 3166

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3076	- 291	I - H	4053	- 264
K - J	4053	- 264	H - G	3073	- 185
J - I	4053	- 264			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	200	- 3274	C - H	104	- 960
B - K	768	0	H - D	770	0
K - C	105	- 955	D - G	200	- 3270

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.22" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

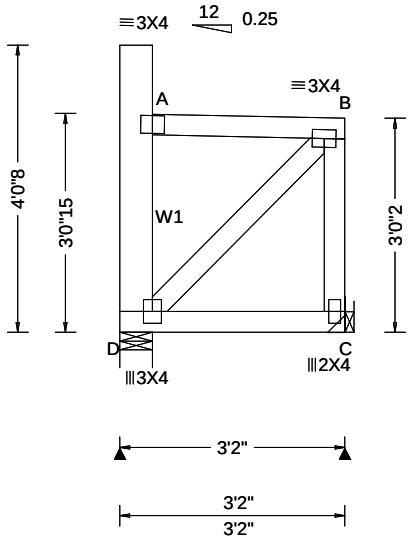
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37392 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48	Cust: R 9316 JRef:1XfQ93160001 T197 DrwNo: 142.22.1737.27283 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.71 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.001	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.139
Max BC CSI: 0.123
Max Web CSI: 0.033

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	176	/-	/-	/111	/53	/78
C	204	/-	/-	/150	/47	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

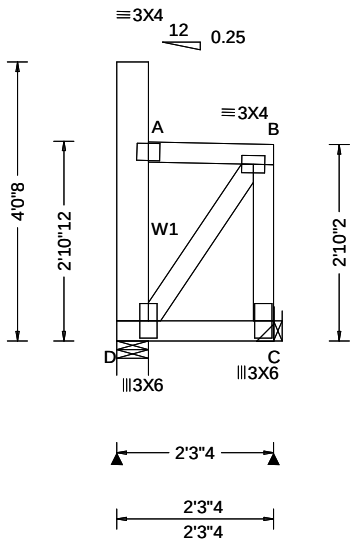
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37393 MONO FROM:	Ply: 1 Qty: 16	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T49	Cust: R 9316 JRef:1XfQ93160001 T217 DrwNo: 142.22.1737.29410 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.065
Max BC CSI: 0.063
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	119	/-	/-	/99	/78	/80
C	144	/-	/-	/147	/61	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

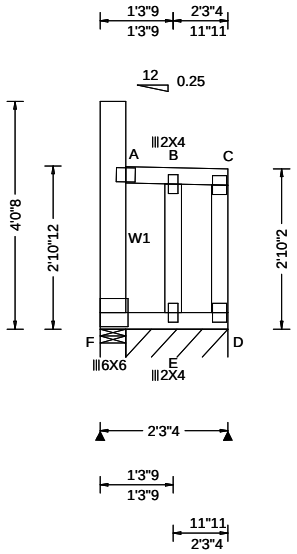
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37394 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T50	Cust: R 9316 JRef:1XfQ93160001 T138 DrwNo: 142.22.1737.31510 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.007 A 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.009 A 999 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.124 B - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.141 B - -
NCBCLL: 0.00	Mean Height: 22.53 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.111
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.255
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.115
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 14.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	36	/-8	/-	/118	/150	/92
D*	139	/-	/-	/148	/70	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 21.7 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

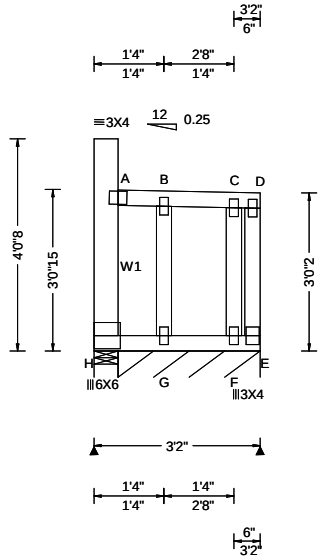
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37395 GABL FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T51	Cust: R 9316 JRef:1XfQ93160001 T169 DrwNo: 142.22.1737.33463 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.71 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	A	999	360
VERT(CL): 0.010	A	999	240
HORZ(LL): 0.122	C	-	-
HORZ(TL): 0.143	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.105
Max BC CSI: 0.293
Max Web CSI: 0.131

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	47	/-	/-	/123	/131	/90
E*	123	/-	/-	/106	/44	/-

Wind reactions based on MWFRS
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 32.5 Min Req = -
Bearings H & H are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

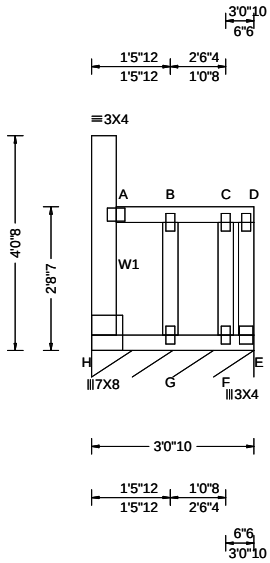
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37396 GABL FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T52	Cust: R 9316 JRef:1XfQ93160001 T132 DrwNo: 142.22.1737.37840 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	A	999	360
VERT(CL): 0.009	A	999	240
HORZ(LL): 0.115	A	-	-
HORZ(TL): 0.134	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.115
Max BC CSI: 0.323
Max Web CSI: 0.142

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E*	119	/-	/-	/56	/5	/30

Wind reactions based on MWFRS
E Brg Wid = 36.6 Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.34	13.63	2.59

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

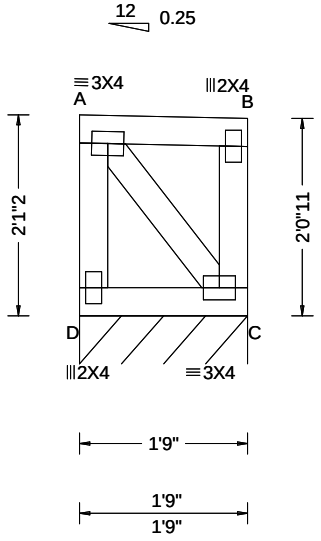
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37397 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE01	Cust: R 9316 JRef:1XfQ93160001 T188 DrwNo: 142.22.1737.39840 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.08 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.046
Max BC CSI: 0.039
Max Web CSI: 0.021

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 21.0 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

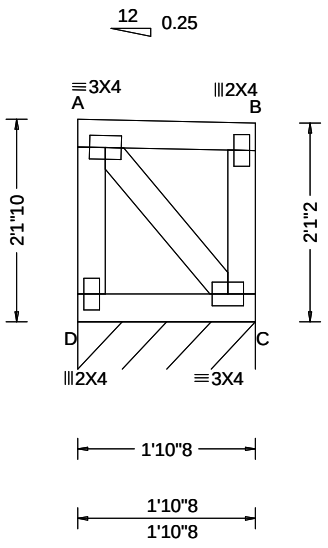
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37398 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE02	Cust: R 9316 JRef:1XfQ93160001 T189 DrwNo: 142.22.1737.41873 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.12 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.022

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/18

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

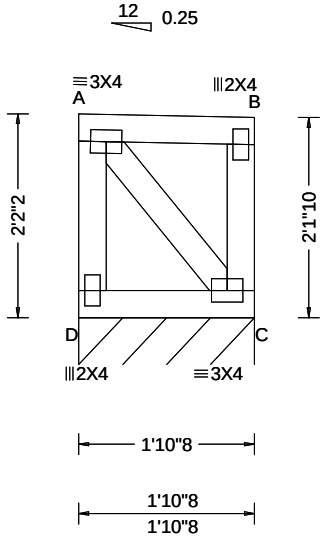
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37399 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE03	Cust: R 9316 JRef:1XfQ93160001 T190 DrwNo: 142.22.1737.43777 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.16 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.023

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

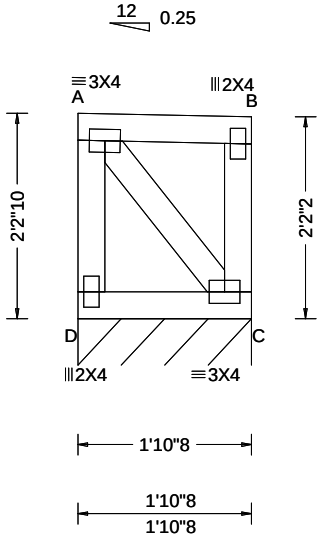
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37400 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE04	Cust: R 9316 JRef:1XfQ93160001 T192 DrwNo: 142.22.1737.45910 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.20 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.024

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

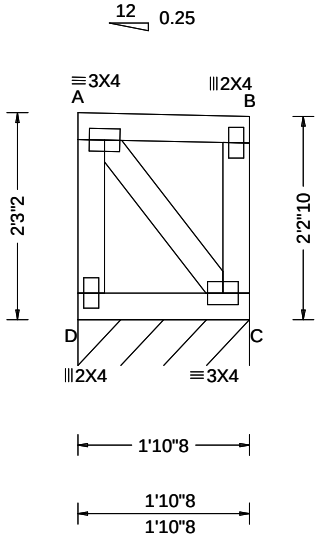
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37401 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE05	Cust: R 9316 JRef:1XfQ93160001 T215 DrwNo: 142.22.1737.48643 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.24 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.025

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

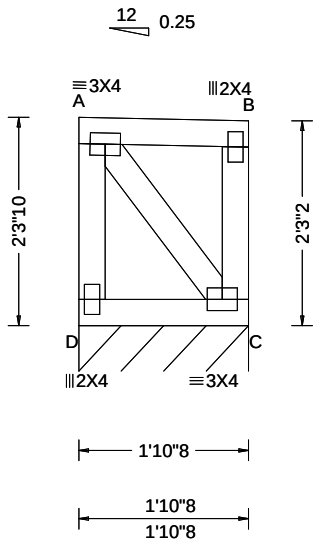
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37402 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE06	Cust: R 9316 JRef:1XfQ93160001 T219 DrwNo: 142.22.1737.50750 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.28 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.026

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

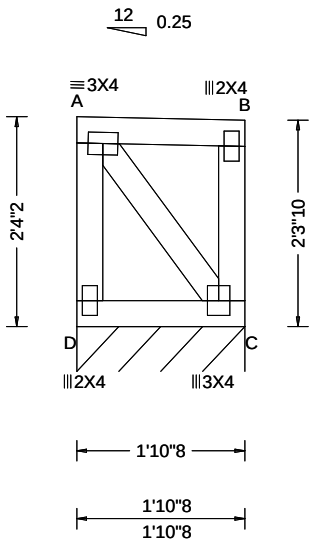
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37403 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE07	Cust: R 9316 JRef:1XfQ93160001 T220 DrwNo: 142.22.1739.11650 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.32 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.027

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

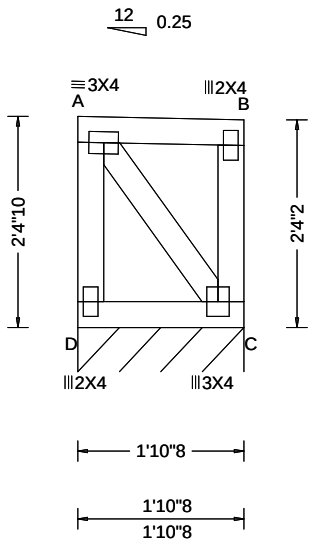
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37404 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE08	Cust: R 9316 JRef:1XfQ93160001 T221 DrwNo: 142.22.1739.14110 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.028

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

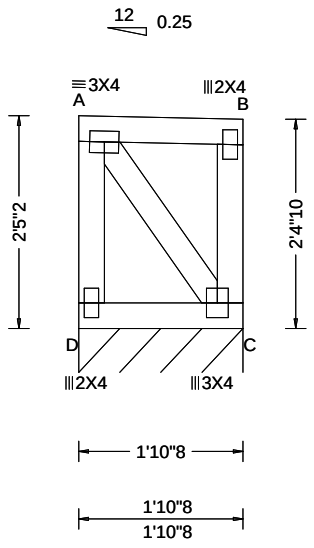
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37405 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE09	Cust: R 9316 JRef:1XfQ93160001 T222 DrwNo: 142.22.1739.17153 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.41 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.029

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

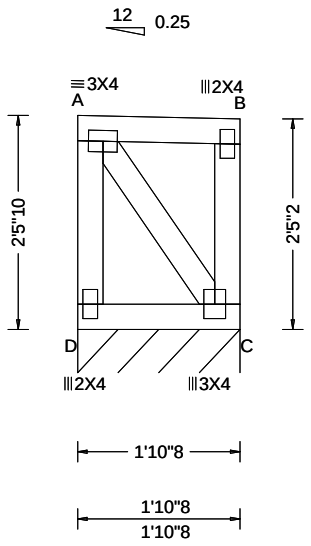
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37406 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE10	Cust: R 9316 JRef:1XfQ93160001 T223 DrwNo: 142.22.1739.19383 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.45 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.031

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

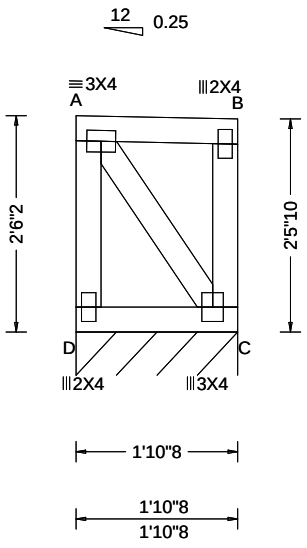
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37407 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE11	Cust: R 9316 JRef:1XfQ93160001 T224 DrwNo: 142.22.1739.21473 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.49 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.032

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

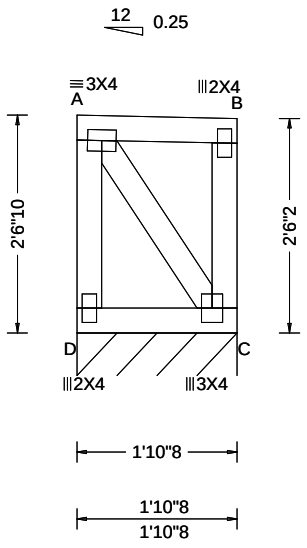
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37408 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE12	Cust: R 9316 JRef:1XfQ93160001 T225 DrwNo: 142.22.1739.24007 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.033

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

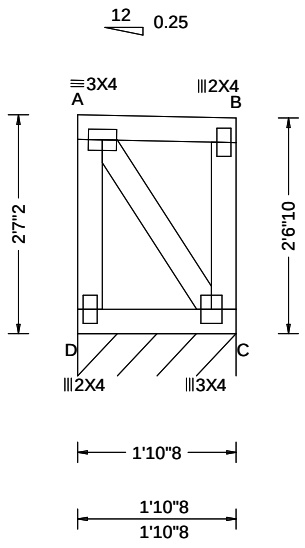
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37409 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE13	Cust: R 9316 JRef:1XfQ93160001 T226 DrwNo: 142.22.1739.26023 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.57 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.035

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

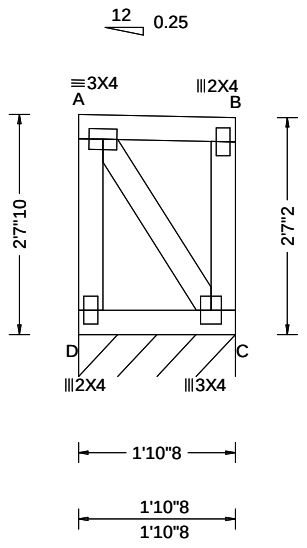
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37410 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE14	Cust: R 9316 JRef:1XfQ93160001 T227 DrwNo: 142.22.1739.28127 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.62 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.036

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

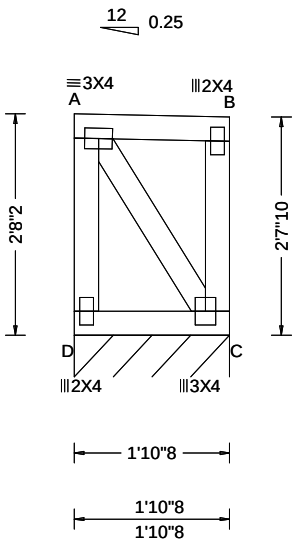
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 37411 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE15	Cust: R 9316 JRef:1XfQ93160001 T228 DrwNo: 142.22.1739.30243 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.66 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.000 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.037

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

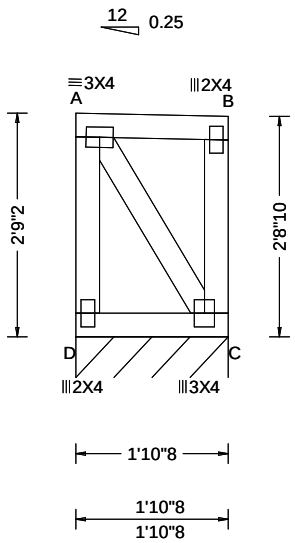
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37412 MONO FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE16	Cust: R 9316 JRef:1XfQ93160001 T251 DrwNo: 142.22.1739.32407 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.74 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.040

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

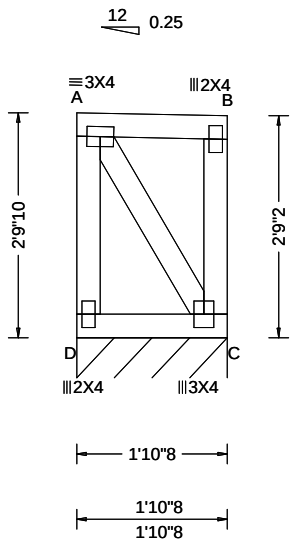
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37413 MONO FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE17	Cust: R 9316 JRef:1XfQ93160001 T252 DrwNo: 142.22.1739.34360 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.78 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.041

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

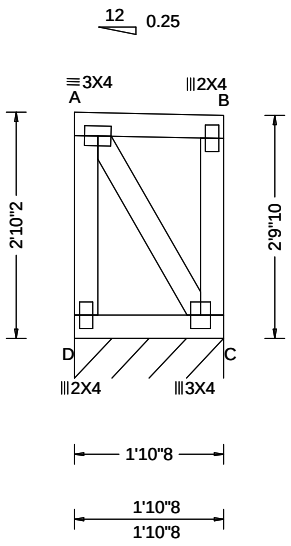
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37414 MONO FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE18	Cust: R 9316 JRef:1XfQ93160001 T253 DrwNo: 142.22.1739.36450 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.82 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

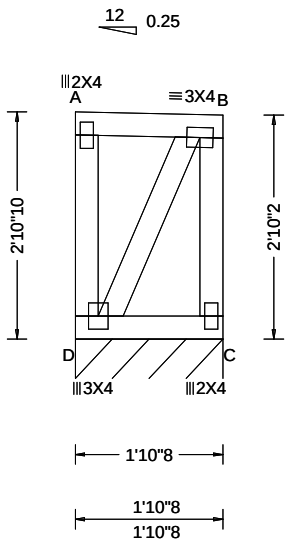
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37415 MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE19	Cust: R 9316 JRef:1XfQ93160001 T254 DrwNo: 142.22.1739.38677 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	-0.001 A	-	-
HORZ(TL):	0.001 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.043

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/27

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

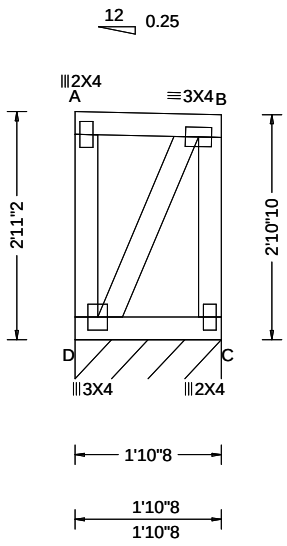
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37416 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE20	Cust: R 9316 JRef:1XfQ93160001 T255 DrwNo: 142.22.1739.41033 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.57 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	-0.001 A	-	-
HORZ(TL):	0.001 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.044

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

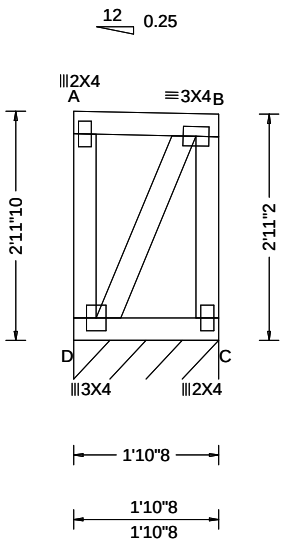
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37417 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE21	Cust: R 9316 JRef:1XfQ93160001 T256 DrwNo: 142.22.1739.42963 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.62 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): -0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.046

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

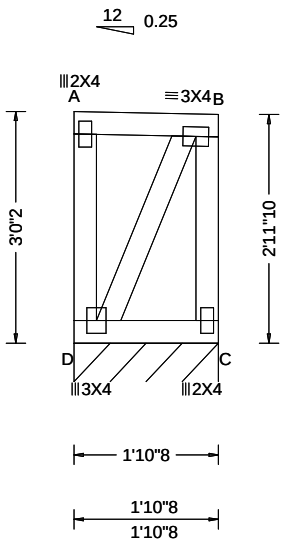
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37418 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE22	Cust: R 9316 JRef:1XfQ93160001 T257 DrwNo: 142.22.1739.45187 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.66 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.000	B	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): -0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.047

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/29

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

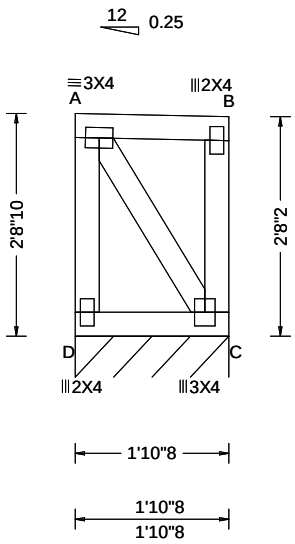
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 37419 MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE23	Cust: R 9316 JRef:1XfQ93160001 T231 DrwNo: 142.22.1739.47293 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.000 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.038

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

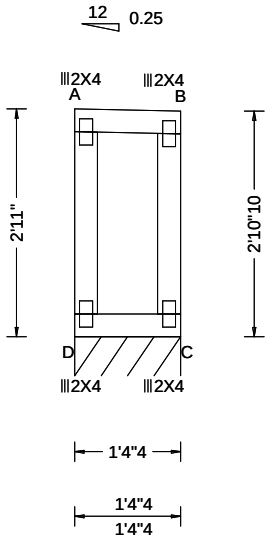
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37462 MONO FROM: JRQ	Ply: 1 Qty: 1	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE24	Cust: R 9316 JRef:1XfQ93160001 T16 DrwNo: 142.22.1739.49803 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.57 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.075 A	-	-
HORZ(TL):	0.086 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.051
Max BC CSI: 0.055
Max Web CSI: 0.080

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	80	/-	/-	/41	/6	/38

Wind reactions based on MWFRS
D Brg Wid = 16.2 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

Fasten rated sheathing to one face of this frame.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof. Complete drainage required.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

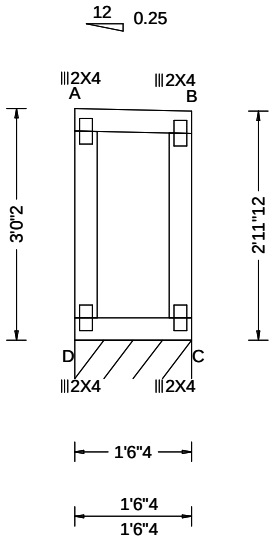
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37421 MONO FROM: JRQ	Ply: 1 Qty: 1	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE26	Cust: R 9316 JRef:1XfQ93160001 T17 DrwNo: 142.22.1739.51830 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.66 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.084 A	-	-
HORZ(TL):	0.095 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.054
Max BC CSI: 0.059
Max Web CSI: 0.085

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	80	/-	/-	/41	/6	/35

Wind reactions based on MWFRS
C Brg Wid = 18.3 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

Fasten rated sheathing to one face of this frame.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof. Complete drainage required.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

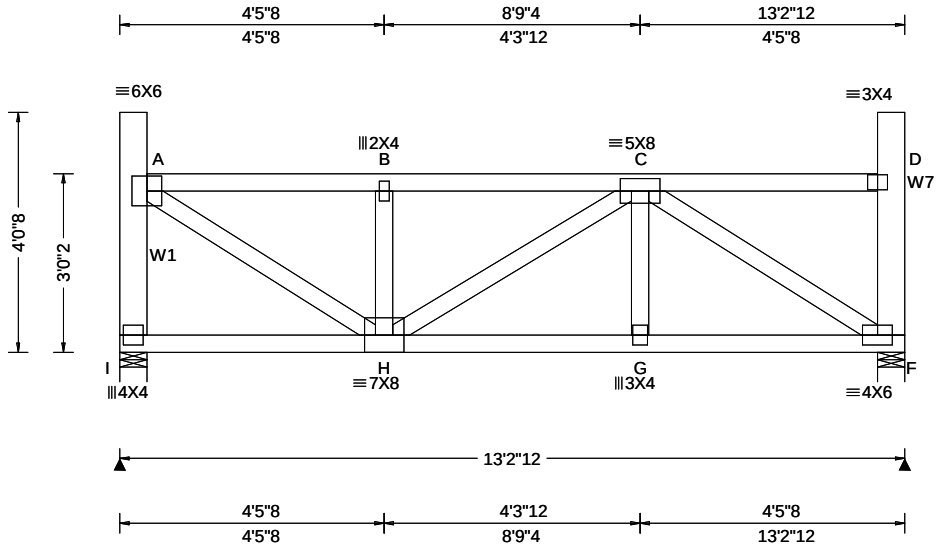
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37442 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T09	Cust: R 9316 JRef:1XfQ93160001 T6 DrwNo: 142.22.1739.53913 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.033	B	999	360
VERT(CL): 0.061	B	999	240
HORZ(LL): 0.011	F	-	-
HORZ(TL): 0.021	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.278
Max BC CSI: 0.833
Max Web CSI: 0.662

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	1220	/-	/-	/-	/175	/-
F	1100	/-	/-	/-	/149	/-

Wind reactions based on MWFRS
I Brg Wid = 5.5 Min Req = 1.9 (Truss)
F Brg Wid = 5.5 Min Req = 1.7 (Truss)
Bearings I & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	208	-1467	B - C	208	-1462

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	1393	-195	G - F	1393	-195

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - A	130	-974	C - G	457	-85
A - H	1582	-224	C - F	221	-1581

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 30 plf at 0.00 to 30 plf at 13.23
BC: 204 lb Conc. Load at 1.17, 3.17, 5.17,11.17
BC: 124 lb Conc. Load at 7.17, 9.17

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

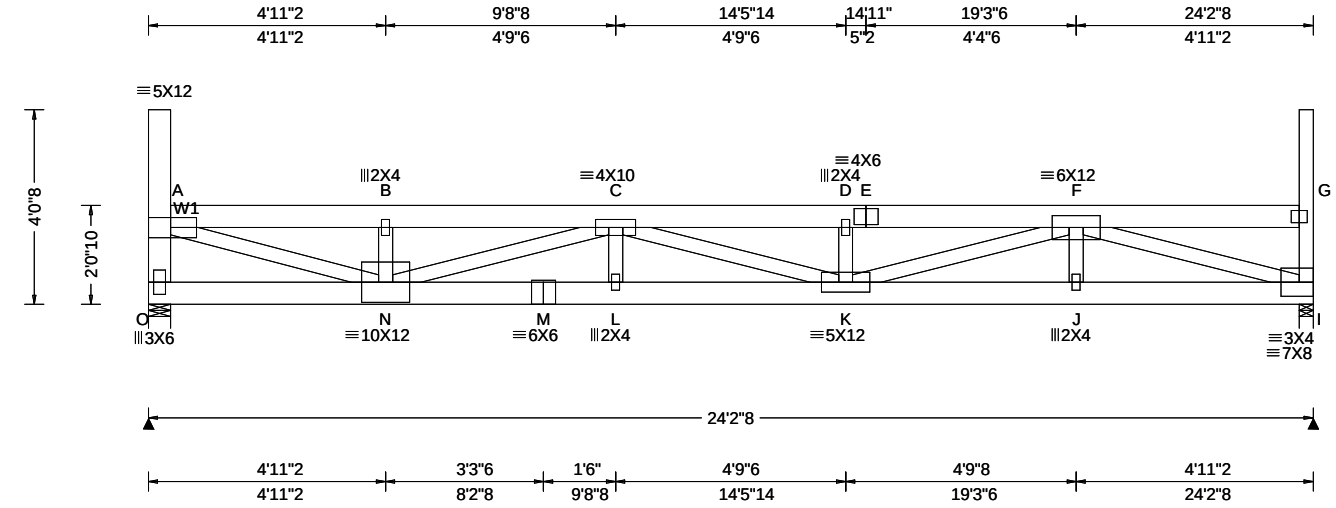
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37480 FLAT FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T16	Cust: R 9316 JRef:1XfQ93160001 T3 DrwNo: 142.22.1739.56427 / FK 05/22/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.246 D	999	360
VERT(CL):	0.457 D	635	240
HORZ(LL):	0.037 I	-	-
HORZ(TL):	0.069 I	-	-

Creep Factor: 2.0
Max TC CSI: 0.211
Max BC CSI: 0.611
Max Web CSI: 0.855

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	2244	/-	/-	/-	/388	/-
I	2375	/-	/-	/-	/403	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 1.8 (Truss)
I Brg Wid = 3.5 Min Req = 1.9 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	517	- 2898	D - E	782	- 4413
B - C	516	- 2891	E - F	782	- 4413
C - D	782	- 4413			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	4323	- 769	K - J	3014	- 532
M - L	4323	- 769	J - I	3014	- 532
L - K	4323	- 769			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	173	- 1008	K - F	1474	- 264
A - N	2866	- 513	F - I	552	- 3126
N - C	267	- 1510			

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @11.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 23.92
BC: From 60 plf at 0.00 to 60 plf at 24.21
BC: 110 lb Conc. Load at 2.06, 4.06, 6.06, 8.06 10.06,18.06
BC: 173 lb Conc. Load at 12.06,14.06,16.06,20.06 22.06

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.99	34.38	4.14
23.92	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

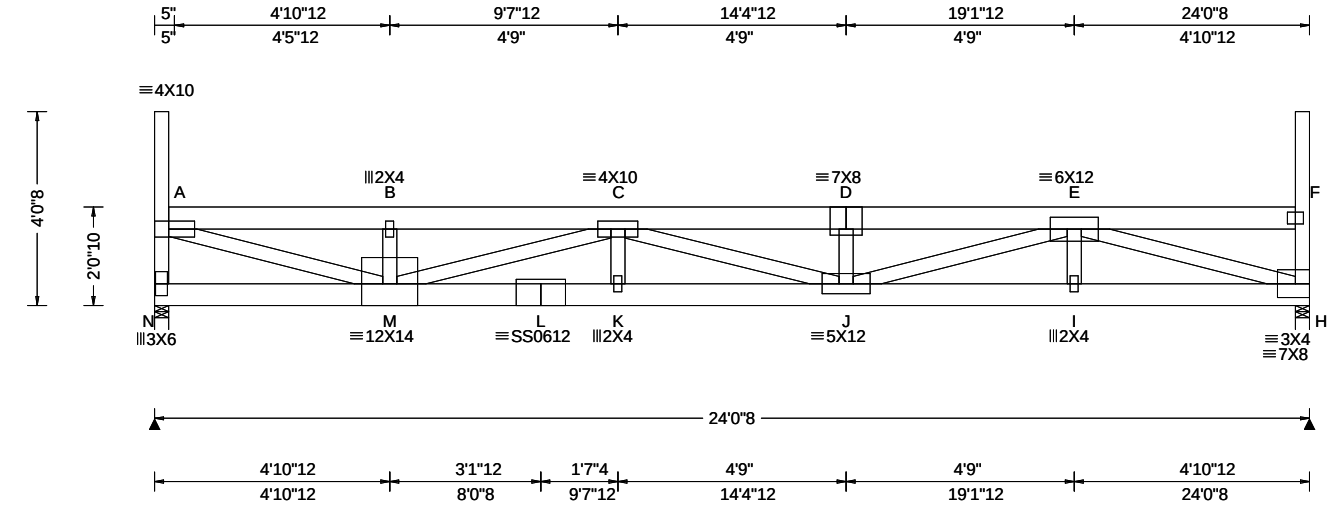
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37477 FLAT FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T32	Cust: R 9316 JRef:1XfQ93160001 T7 DrwNo: 142.22.1739.58860 / FK 05/22/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.245 K	999	360
VERT(CL):	0.456 K	632	240
HORZ(LL):	0.037 H	-	-
HORZ(TL):	0.069 H	-	-

Creep Factor: 2.0
Max TC CSI: 0.213
Max BC CSI: 0.626
Max Web CSI: 0.829

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	2407	/-	/-	/-	/411	/-
H	2327	/-	/-	/-	/396	/-

Wind reactions based on MWFRS
N Brg Wid = 3.5 Min Req = 1.9 (Truss)
H Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	535	- 3041	C - D	776	- 4392
B - C	534	- 3033	D - E	776	- 4392

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	4445	- 783	J - I	2937	- 520
L - K	4445	- 783	I - H	2937	- 520
K - J	4445	- 783			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	182	- 1070	J - E	1536	- 271
A - M	3062	- 540	E - H	540	- 3047
M - C	263	- 1490			

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @11.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 23.75
BC: From 60 plf at 0.00 to 60 plf at 24.04
BC: 173 lb Conc. Load at 1.90, 3.90, 7.90, 9.90 11.90,13.90,21.90
BC: 110 lb Conc. Load at 5.90,15.90,17.90,19.90

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.99	34.38	4.14
23.75	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

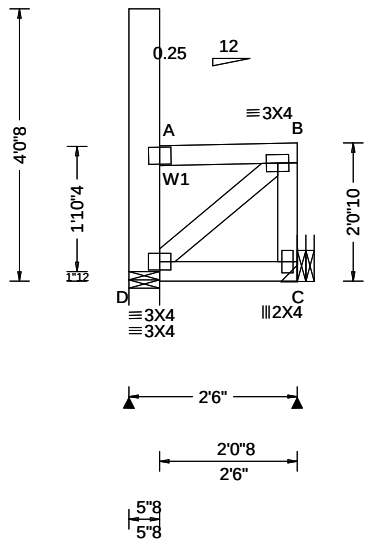
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37428 MONO FROM:	Ply: 1 Qty: 17	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02A	Cust: R 9316 JRef:1XfQ93160001 T10 DrwNo: 142.22.1740.00900 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.090
Max BC CSI: 0.027
Max Web CSI: 0.106

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	80	/-	/-	/81	/76	/62
C	110	/-	/-	/120	/56	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

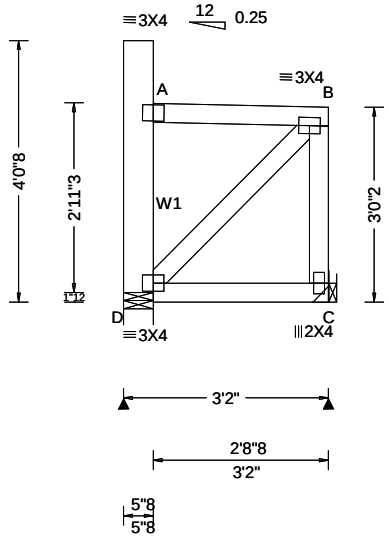
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37431 MONO FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48A	Cust: R 9316 JRef:1XfQ93160001 T13 DrwNo: 142.22.1740.02947 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.71 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.119
Max BC CSI: 0.044
Max Web CSI: 0.028

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	93	/-	/-	/69	/43	/34
C	124	/-	/-	/98	/33	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

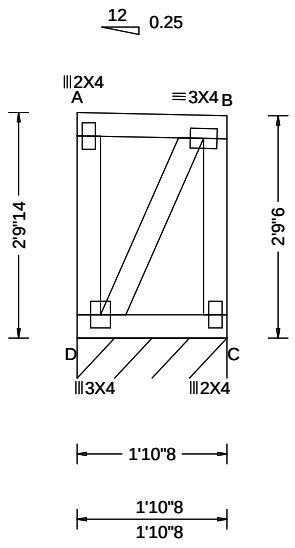
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37468 MONO FROM: JRQ	Ply: 1 Qty: 1	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE25	Cust: R 9316 JRef:1XfQ93160001 T12 DrwNo: 142.22.1740.05523 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.62 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.000	B	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): -0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.046
Max BC CSI: 0.017
Max Web CSI: 0.041

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	80	/-	/-	/41	/6	/27

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

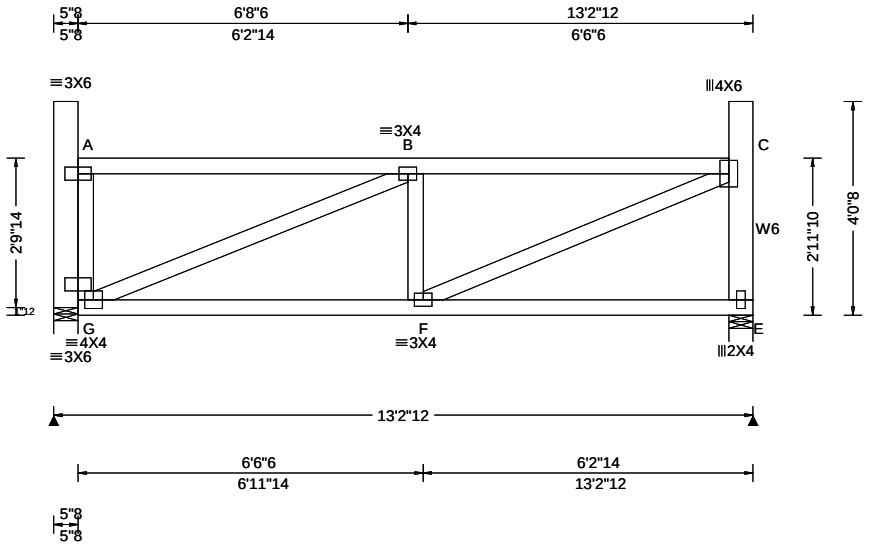
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37471 MONO FROM: JRQ	Ply: 1 Qty: 1	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T08A	Cust: R 9316 JRef:1XfQ93160001 T14 DrwNo: 142.22.1740.07960 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.020 B	999	360
VERT(CL):	0.041 B	999	240
HORZ(LL):	0.004 E	-	-
HORZ(TL):	0.008 E	-	-

Creep Factor: 2.0
Max TC CSI: 0.616
Max BC CSI: 0.357
Max Web CSI: 0.623

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	506	/-	/-	/275	/61	/116
E	488	/-	/-	/270	/56	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Support)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	98	- 731

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	742	- 152

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - A	74	- 512	F - C	732	- 149
G - B	154	- 786	C - E	80	- 436

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W6 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11786.33" if used)

Additional Notes

WARNING! Reaction exceeds allowable

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

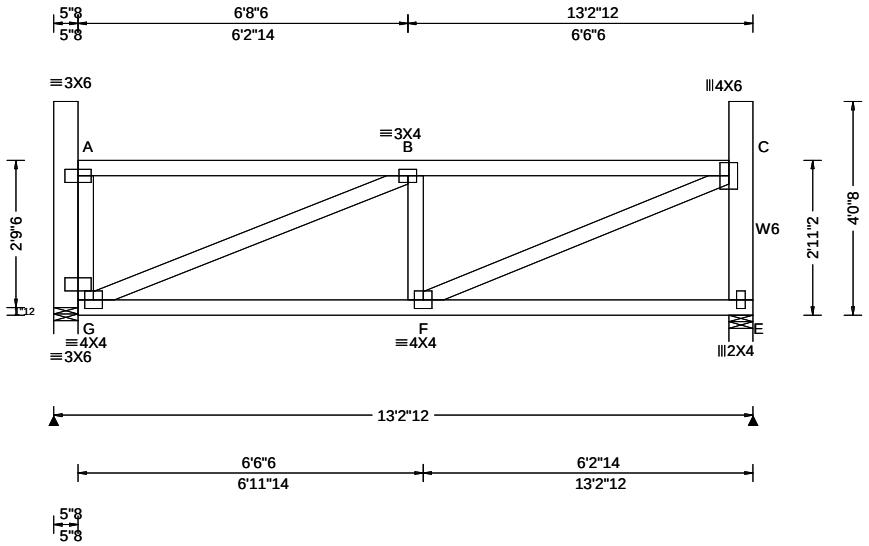
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37474 MONO FROM: JRQ	Ply: 1 Qty: 1	**Job Number:** JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T07A	Cust: R 9316 JRef:1XfQ93160001 T9 DrwNo: 142.22.1740.27283 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.021 B	999	360
VERT(CL):	0.042 B	999	240
HORZ(LL):	0.004 E	-	-
HORZ(TL):	0.008 E	-	-

Creep Factor: 2.0
Max TC CSI: 0.616
Max BC CSI: 0.359
Max Web CSI: 0.629

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	506	/-	/-	/276	/61	/117
E	488	/-	/-	/271	/56	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Support)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	99	- 742

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	754	- 153

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - A	74	- 512	F - C	742	- 153
G - B	158	- 797	C - E	81	- 436

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W6 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.11	6.20	1.50
12.77	0.00	20.00	1.11	6.20	1.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11786.33" if used)

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Gable Stud Reinforcement Detail

ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 "L" Brace * Group A	(1) 1x4 "L" Brace * Group B	(1) 2x4 "L" Brace * Group A	(1) 2x4 "L" Brace * Group B	(2) 2x4 "L" Brace ** Group A	(2) 2x4 "L" Brace ** Group B	(1) 2x6 "L" Brace * Group A	(1) 2x6 "L" Brace * Group B	(2) 2x6 "L" Brace ** Group A	(2) 2x6 "L" Brace ** Group B
24" o.c.	SPF HF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"
16" o.c.	SPF HF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

Attach "L" braces with 10d (0.128"x3.0" min) nails.

* For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

"L" bracing must be a minimum of 80% of web member length.

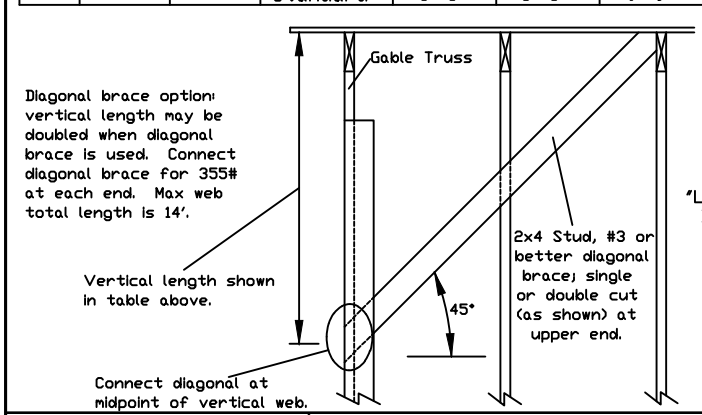
Gable Vertical Plate Sizes

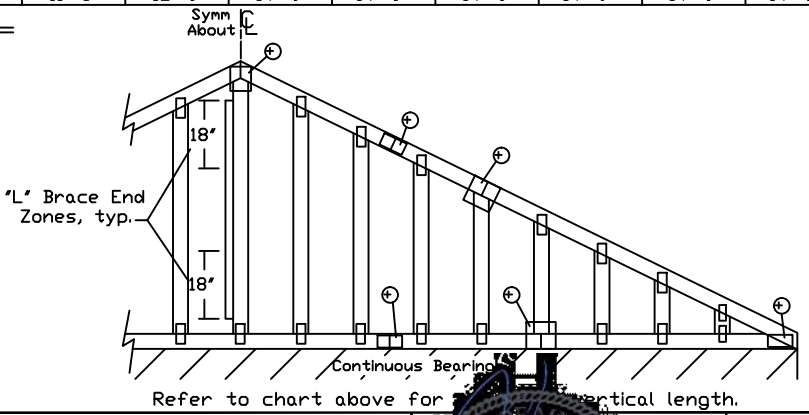
Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 355# at each end. Max web total length is 14'.





Refer to chart above for [illegible] vertical length.

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT: FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

05/22/2022

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-16-GAB11530
DATE 01/26/2018
DRWG A11530ENC160118

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C
Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail for lumber, plates, and other information not shown on this detail.

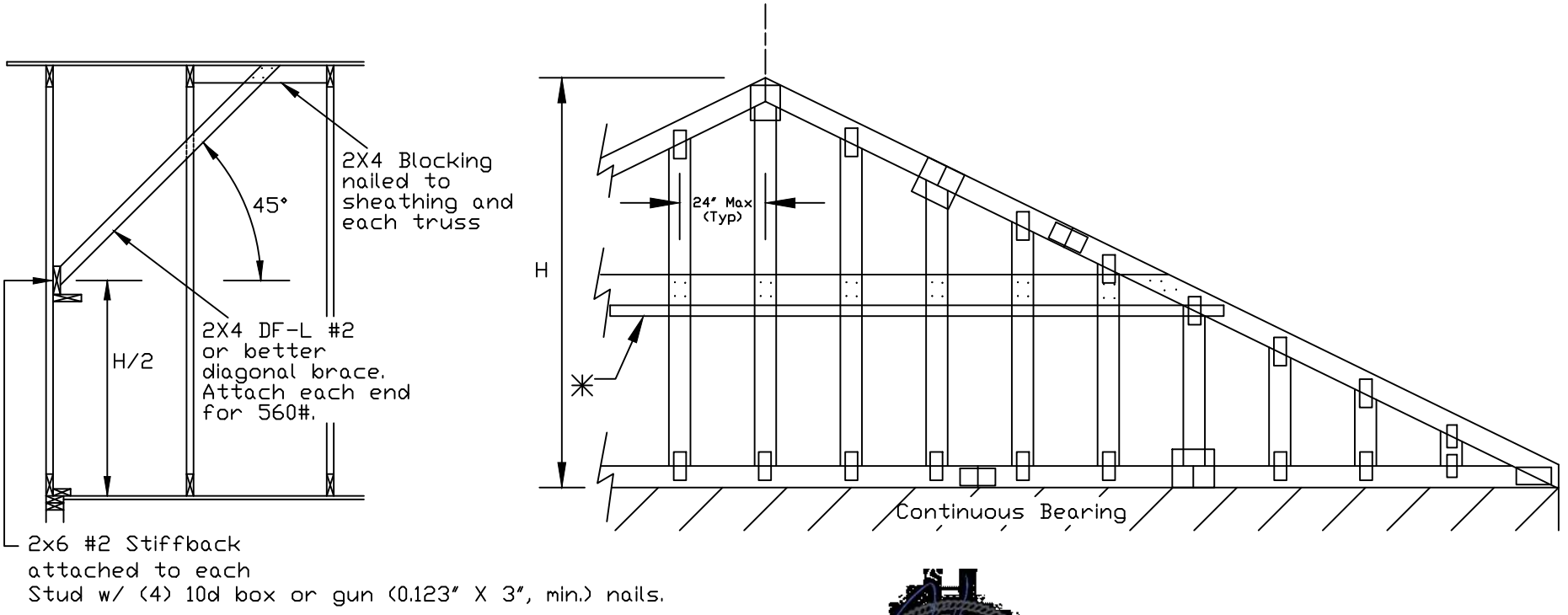
Nails: 10d box or gun (0.128"x3",min) nails.

H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback to roof diaphragm every 6'0" (see detail below or refer to DRWG A12030ENC160118).

H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace to roof diaphragm every 4'0" (see detail below or refer to DRWG A12030ENC160118).

✳ Optional 2x L-reinforcement attached to stiffback with 10d box or gun (0.128" x 3", min.) nails @ 6" o.c.



ALPINE
AN ITW COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

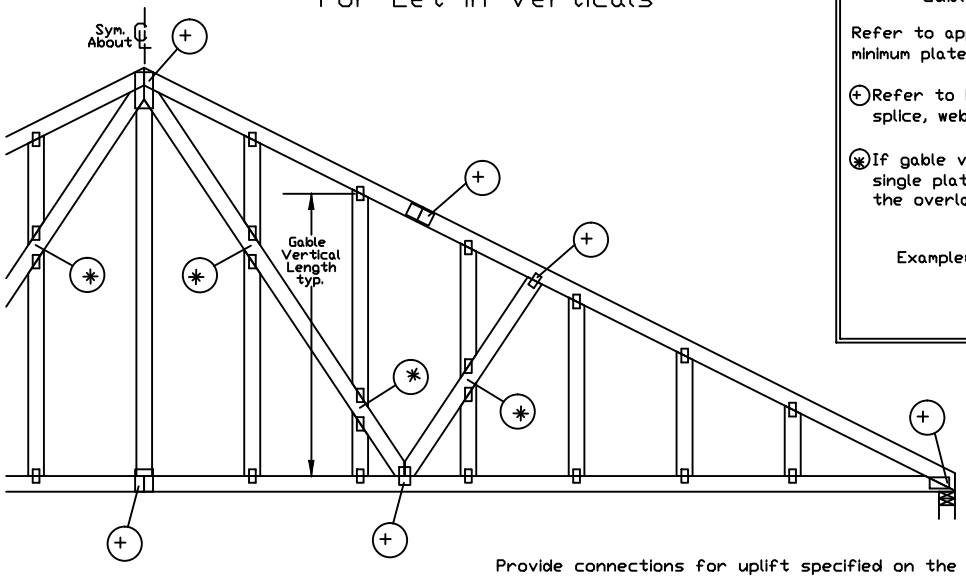
05/22/2022

MAX. TOT. LD. 60 PSF

MAX. SPACING

REF	GE WHALER
DATE	01/02/2018
DRWG	GABRST160118

Gable Detail
For Let-in Verticals



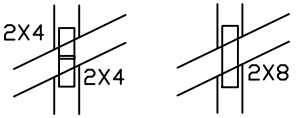
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

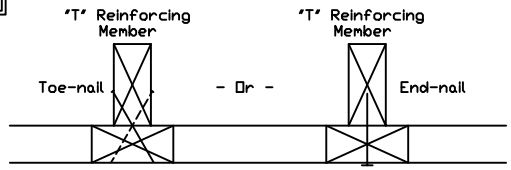
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊛ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



"T" Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:
10d Common (0.148"x 3.",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

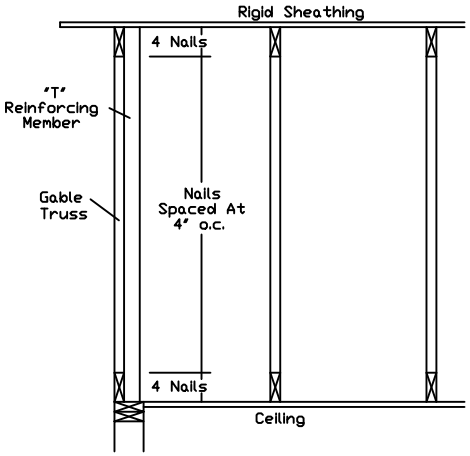
Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24"o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

05/22/2022

MAX. TOT. LD. 60 PSF
DUR. FAC. ANY
MAX. SPACING 24.0"

REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforecement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

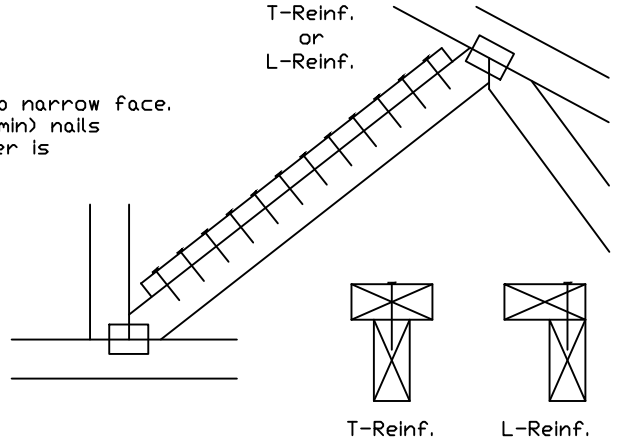
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

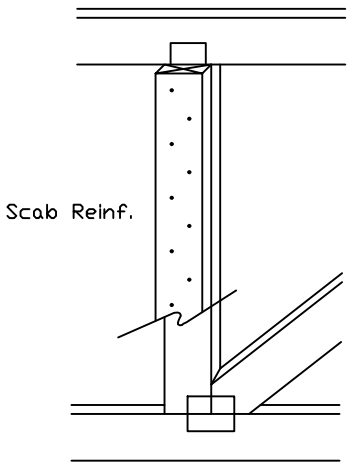
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

05/22/2022

TC LL	PSF	REF CLR Subst.
TC DL	PSF	DATE 01/02/19
BC DL	PSF	DRWG BRCLBSUB0119
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

05/22/2022

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

Building 14

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/22/2022

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 BY: CB

Site Information:	Page 1:
Customer: Mill Creek Truss	*Job Number:* JB-220699
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1XfQ93160002
Wind Standard: ASCE716 *Wind Speed (mph):* 0 *Building Type:*	*Design Loading (psf):* 75.00

This package contains general notes pages, 24 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	142.22.1741.30350	F02
3	142.22.1741.35830	F11
5	142.22.1741.43010	F13
7	142.22.1741.47780	F15
9	142.22.1741.56593	F17
11	142.22.1742.03350	F18G
13	142.22.1742.08430	F19G
15	142.22.1742.13633	F22
17	142.22.1743.22627	F24
19	142.22.1743.27100	F26
21	142.22.1743.32467	F28
23	142.22.1743.37543	L11
25	DEFLCAMB1014	
27	CNSY42PL0118	

Item	Drawing Number	Truss
2	142.22.1741.32537	F03
4	142.22.1741.40410	F12
6	142.22.1741.45250	F14
8	142.22.1741.54253	F16
10	142.22.1741.59333	F18
12	142.22.1742.05727	F19
14	142.22.1742.11230	F21
16	142.22.1742.16117	F23
18	142.22.1743.24943	F25
20	142.22.1743.29187	F27
22	142.22.1743.35360	F28G
24	142.22.1743.43040	L21
26	STRBRIBR1014	
28	LSCSYX2A1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

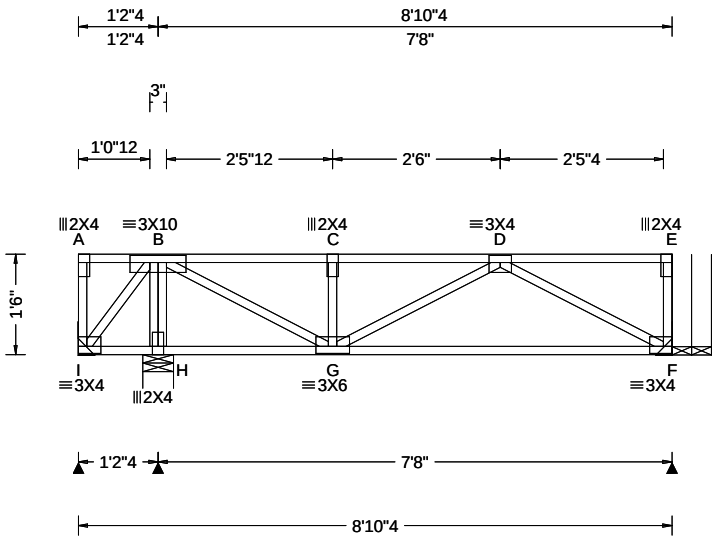
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 14

SEQN: 12692 SY42 FROM:	Ply: 1 Qty: 54	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F02	Cust: R 9316 JRef:1XfQ93160002 T6 DrwNo: 142.22.1741.30350 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.018	C	999	480
VERT(CL): 0.034	C	999	360
HORZ(LL): 0.002	F	-	-
HORZ(TL): 0.004	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.299
Max BC CSI: 0.301
Max Web CSI: 0.162

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	28	/-43	/-	/-	/-	/-
H	525	/-	/-	/-	/-	/-
F	372	/-	/-	/-	/-	/-

I Brg Wid = - Min Req = -
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
F Brg Wid = - Min Req = -
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-485	C - D	0	-485

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	473	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - H	0	-499	D - F	0	-537
B - G	576	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

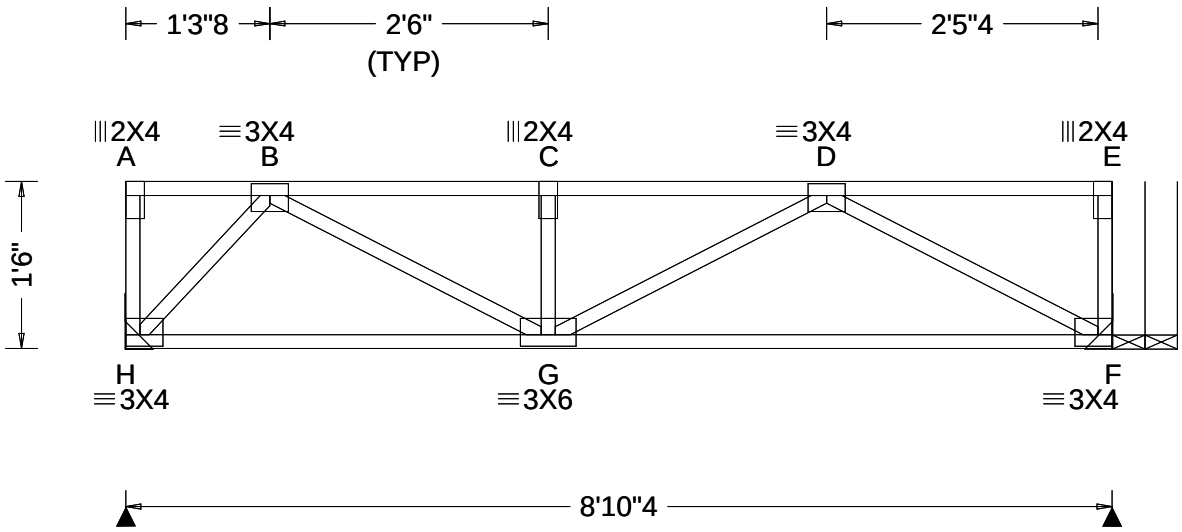
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12694 SY42 FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F03	Cust: R 9316 JRef:1XfQ93160002 T7 DrwNo: 142.22.1741.32537 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.024	C	999	480
VERT(CL): 0.046	C	999	360
HORZ(LL): 0.004	B	-	-
HORZ(TL): 0.008	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.298
Max BC CSI: 0.324
Max Web CSI: 0.141

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	443	/-	/-	/-	/-	/-
F	443	/-	/-	/-	/-	/-

H Brg Wid = - Min Req = -
F Brg Wid = - Min Req = -
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-747	C - D	0	-747

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	606	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
H - B	0	-546	D - F	0	-687
B - G	426	0			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

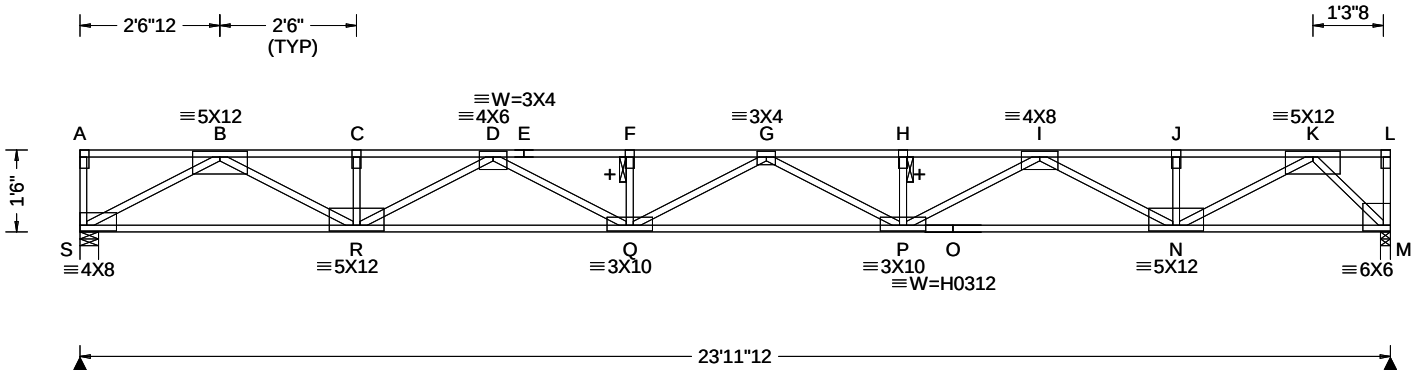
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12696 SY42 FROM:	Ply: 1 Qty: 32	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F11	Cust: R 9316 JRef:1XfQ93160002 T28 DrwNo: 142.22.1741.35830 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.414	G	695	480
VERT(CL): 0.775	G	371	360
HORZ(LL): 0.057	M	-	-
HORZ(TL): 0.107	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.398
Max BC CSI: 0.672
Max Web CSI: 0.551

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
S	1199	/-	/-	/-	/-	/-
M	1199	/-	/-	/-	/-	/-

S Brg Wid = 4.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3522	G - H	0	-4917
C - D	0	-3522	H - I	0	-4917
D - E	0	-5123	I - J	0	-2895
E - F	0	-5123	J - K	0	-2895
F - G	0	-5123			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	2010	0	P - O	4106	0
R - Q	4523	0	O - N	4106	0
Q - P	5219	0	N - M	1183	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2281	P - I	925	0
B - R	1725	0	I - N	0	-1382
R - D	0	-1143	N - K	1954	0
D - Q	684	0	K - M	0	-1648

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

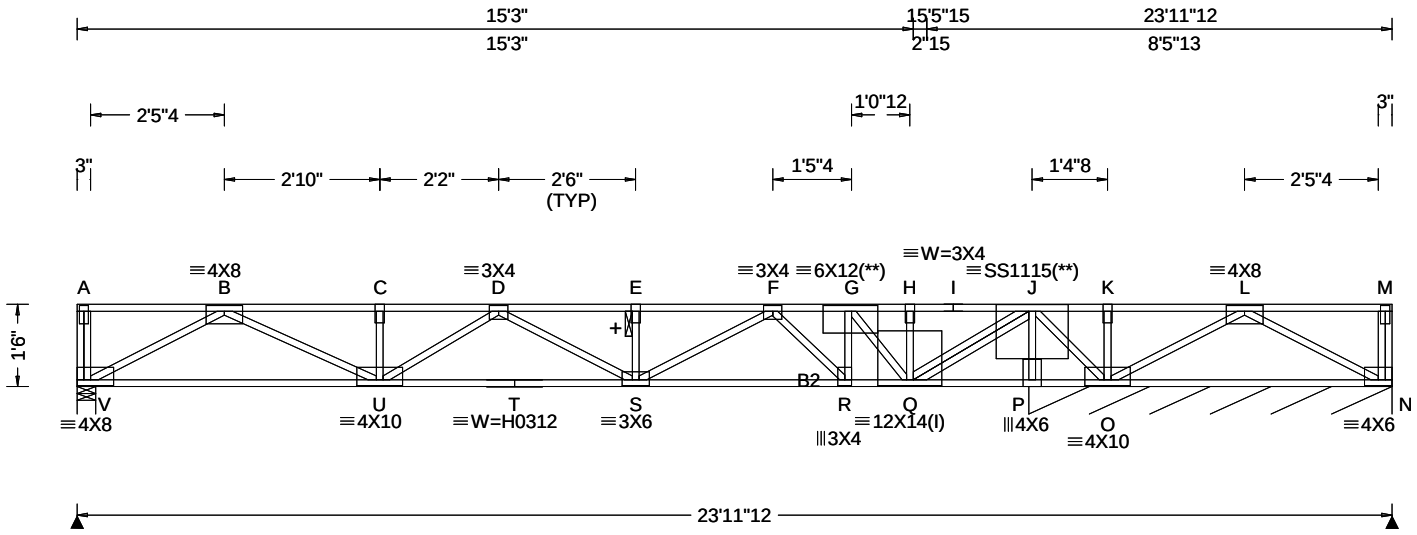
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12740 SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F12	Cust: R 9316 JRef:1XfQ93160002 T1 DrwNo: 142.22.1741.40410 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.201 E 999 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.377 E 545 360
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.029 B - -
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.054 B - -
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.946
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.960
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: No	Max Web CSI: 0.568
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	
	I: NA GCpi: NA	WAVE, HS, 18SS	VIEW Ver: 21.02.00.1005.17
	Wind Duration: NA		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	443	/-	/-	/-	/-	/-
N		/-304				

V Brg Wid = 4.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-2615	G - H	0	-818
C - D	0	-2615	H - I	0	-818
D - E	0	-3202	I - J	0	-818
E - F	0	-3202	J - K	2031	0
F - G	0	-2426	K - L	2031	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1461	0	R - Q	2382	0
U - T	3059	0	Q - P	0	-2607
T - S	3059	0	P - O	0	-2607
S - R	2851	0	O - N	0	-784

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	-1680	G - Q	0	-2558
B - U	1283	0	Q - J	4025	0
U - D	0	-526	J - P	0	-2889
S - F	401	0	J - O	816	0
F - R	0	-615	O - L	0	-1423
R - G	488	0	L - N	897	0

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.98
BC: From 13 plf at 0.00 to 13 plf at 23.98
TC: 1500 lb Conc. Load at 14.06

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

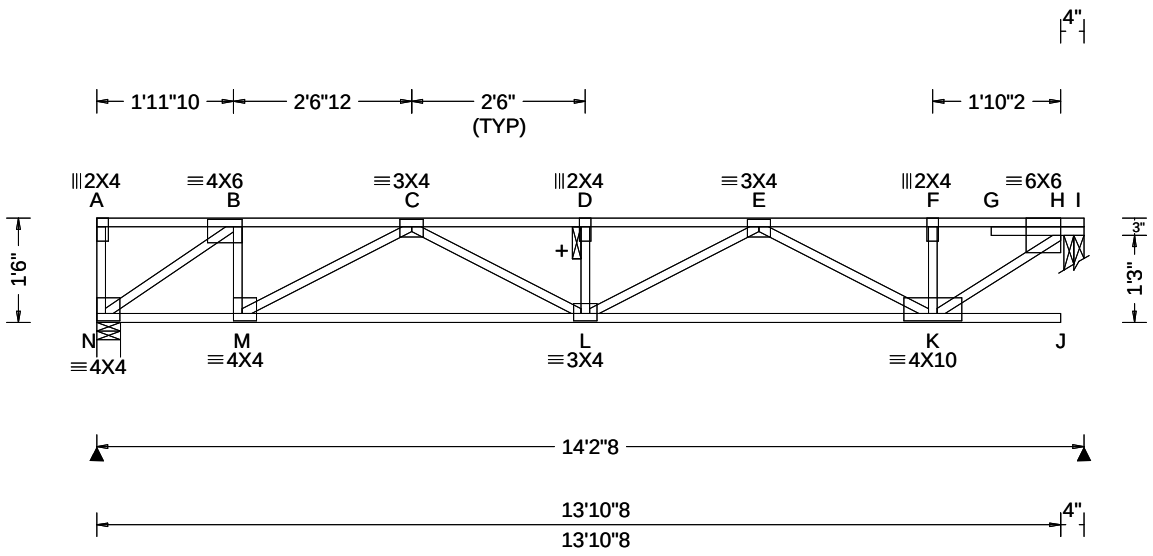
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12700 SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F13	Cust: R 9316 JRef:1XfQ93160002 T23 DrwNo: 142.22.1741.43010 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.096	D	999	480
VERT(CL): 0.179	D	942	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.030	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.620
Max BC CSI: 0.537
Max Web CSI: 0.329

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	702	/-	/-		/-	/-	/-
H	714	/-	/-		/-	/-	/-

N Brg Wid = 4.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-943	E - F	0	-943
C - D	0	-1836	F - H	0	-942
D - E	0	-1836			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	905	0	L - K	1574	0
M - L	1582	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1104	E - K	0	-721
B - M	416	0	K - H	1166	0
M - C	0	-734			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

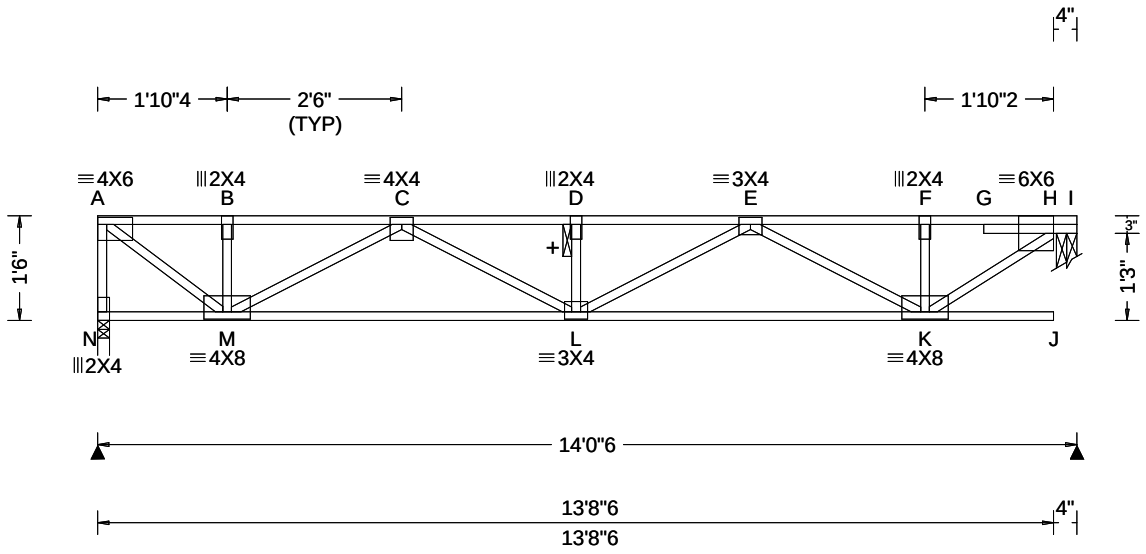
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12702 SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F14	Cust: R 9316 JRef:1XfQ93160002 T15 DrwNo: 142.22.1741.45250 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.093	D	999	480
VERT(CL): 0.174	D	955	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.612
Max BC CSI: 0.524
Max Web CSI: 0.324

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh		/ Rw	/ U	/ RL
N	693	/-	/-		/-	/-	/-
H	706	/-	/-		/-	/-	/-

N Brg Wid = 2.0 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	- 849	D - E	0	- 1791
B - C	0	- 849	E - F	0	- 929
C - D	0	- 1791	F - H	0	- 929

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1520	0	L - K	1546	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	- 690	E - K	0	- 703
A - M	1057	0	K - H	1150	0
M - C	0	- 766			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

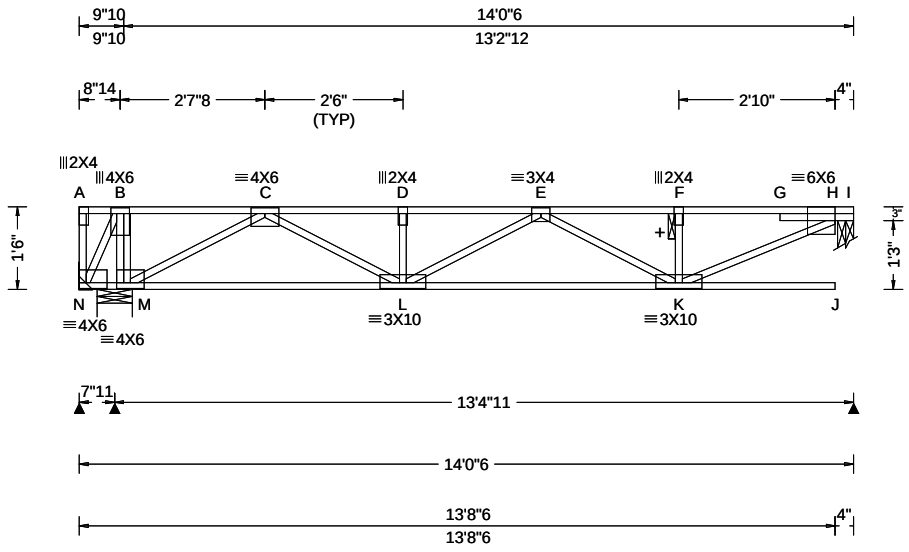
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12704 SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F15	Cust: R 9316 JRef:1XfQ93160002 T26 DrwNo: 142.22.1741.47780 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.200	J	780	480
VERT(CL): 0.320	J	487	360
HORZ(LL): 0.011	C	-	-
HORZ(TL): 0.020	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.961
Max BC CSI: 0.588
Max Web CSI: 0.339

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-708	/-	/-	/-	/-
N	1480	/-	/-	/-	/-	/-
H	618	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
N Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	400	0	E - F	0	-1087
C - D	0	-1207	F - H	0	-1088
D - E	0	-1207			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	600	0	L - K	1318	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	685	0	C - L	693	0
B - M	0	-840	K - H	1201	0
M - C	0	-1141			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -708# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

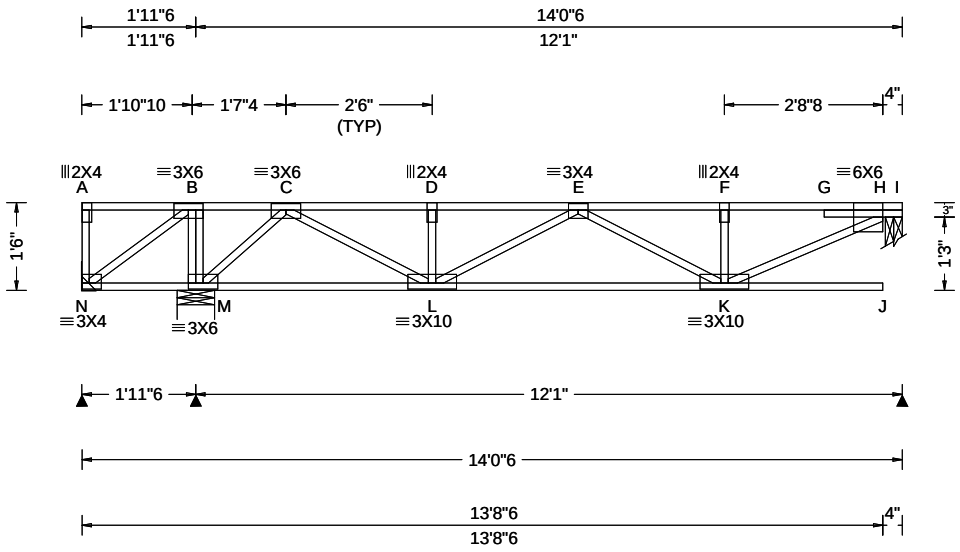
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12706 SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F16	Cust: R 9316 JRef:1XfQ93160002 T33 DrwNo: 142.22.1741.54253 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.159	J	897	480
VERT(CL): 0.249	J	570	360
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.283

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
N	- /-323	/-	/-	/-	/-	
M	1131 /-	/-	/-	/-	/-	
I	547 /-	/-	/-	/-	/-	

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	511	0	E - F	0	-901
C - D	0	-818	F - H	0	-903
D - E	0	-818			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-469	L - K	1034	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	580	0	C - L	816	0
B - M	0	-512	K - H	1004	0
M - C	0	-842			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

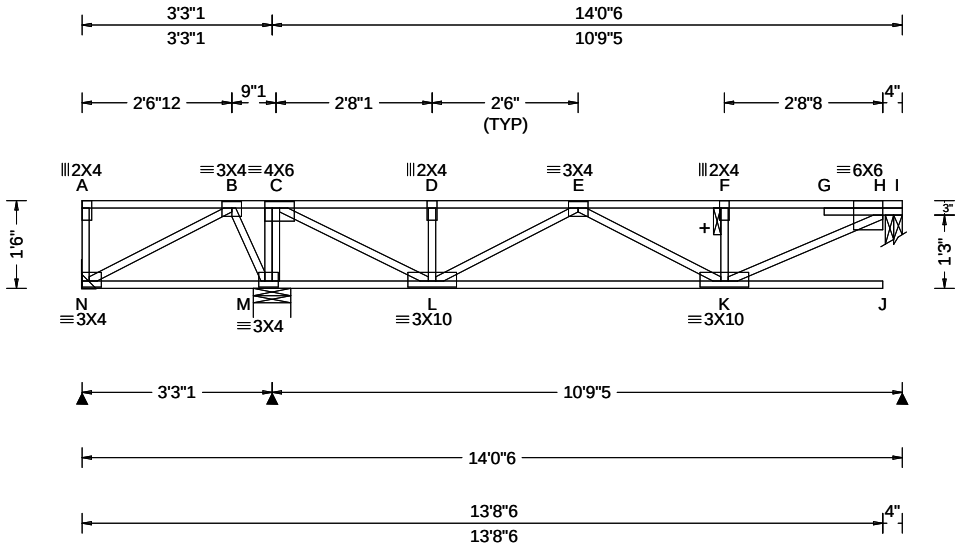
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12708 SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F17	Cust: R 9316 JRef:1XfQ93160002 T20 DrwNo: 142.22.1741.56593 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	870	480
VERT(CL): 0.233	J	550	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.749
Max BC CSI: 0.437
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	57	/-122	/-	/-	/-	/-
M	959	/-	/-	/-	/-	/-
I	491	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
I Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	423	0	E - F	0	- 784
C - D	0	- 500	F - H	0	- 785
D - E	0	- 500			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	818	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	- 627	K - H	874	0
C - L	963	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

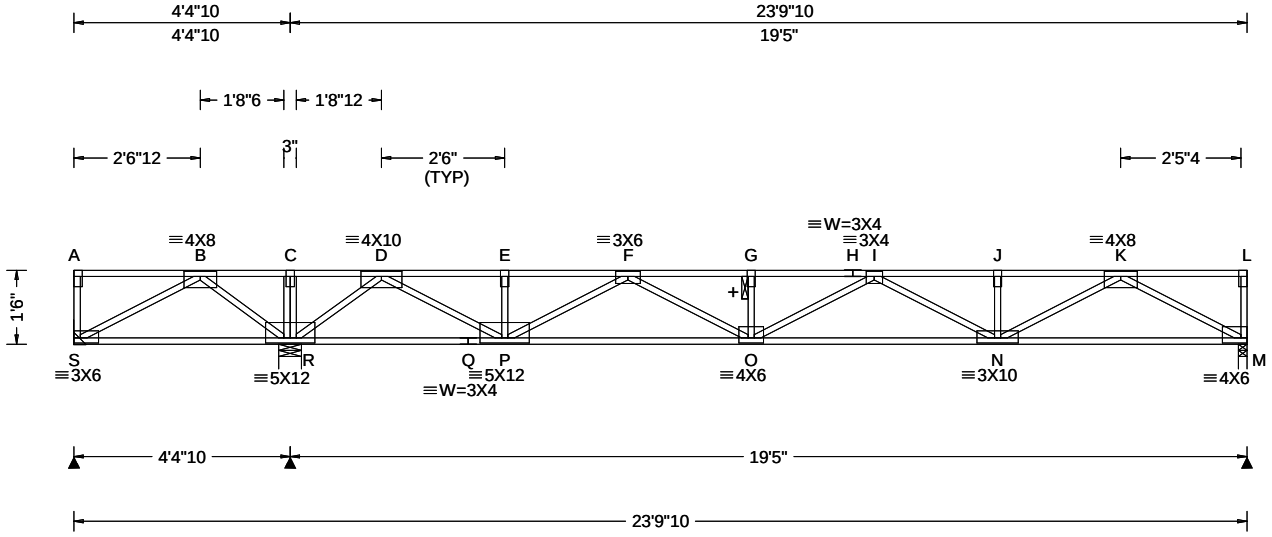
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12710 SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18	Cust: R 9316 JRef:1XfQ93160002 T16 DrwNo: 142.22.1741.59333 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	G	999	480
VERT(CL): 0.371	G	628	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.796
Max Web CSI: 0.466

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	-	/-458	/-	/-	/-	/-
R	1886	/-	/-	/-	/-	/-
M	844	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1750	0	G - H	0	- 2537
C - D	1750	0	H - I	0	- 2537
D - E	0	- 1040	I - J	0	- 2220
E - F	0	- 1040	J - K	0	- 2220
F - G	0	- 2537			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	- 955	P - O	1987	0
R - Q	0	- 427	O - N	2580	0
Q - P	0	- 427	N - M	1352	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1084	0	F - O	631	0
B - R	0	- 1117	I - N	0	- 411
R - D	0	- 1648	N - K	991	0
D - P	1653	0	K - M	0	- 1535
P - F	0	- 1085			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -458# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

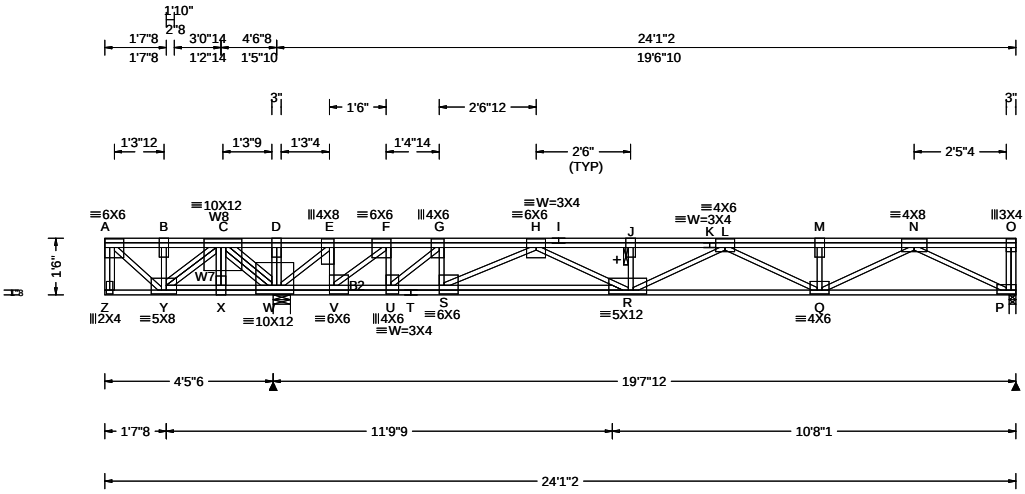
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12712 SY42 FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F18G	Cust: R 9316 JRef:1XfQ93160002 T17 DrwNo: 142.22.1742.03350 / FK 05/22/2022	

2 Complete Trusses Required



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.124 Z 435 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.263 Z 204 360
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): -0.027 A - -
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.058 A - -
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.885
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.247
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Varies by Ld Case	Max Web CSI: 0.249
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	
	I: NA GCpi: NA	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: NA		

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7,W8 4x2 DF-L 2400f-2.0E;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes

All plates are 3X6 except as noted.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
W	8317	/-	/-	/-	/-	/-
P	962	/-165	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	420	0	H - I	1554	-1705
B - C	420	0	I - J	1554	-1705
C - D	4753	0	J - K	1551	-1711
D - E	4749	0	K - L	1551	-1711
E - F	4209	-367	L - M	534	-1347
F - G	3615	-827	M - N	534	-1347
G - H	3087	-1193			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	-1228	T - S	1169	-3130
X - W	0	-1219	S - R	1563	-2265
W - V	329	-4254	R - Q	1631	-993
V - U	793	-3663	Q - P	784	-222
U - T	1169	-3130			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	-548	G - S	539	0
Y - C	1053	0	S - H	0	-1139
C - W	0	-4787	H - R	869	0
W - E	0	-999	R - L	89	-626
E - V	636	0	L - Q	518	-321
V - F	0	-1035	Q - N	636	-353
F - U	652	0	N - P	250	-860
U - G	0	-919			

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

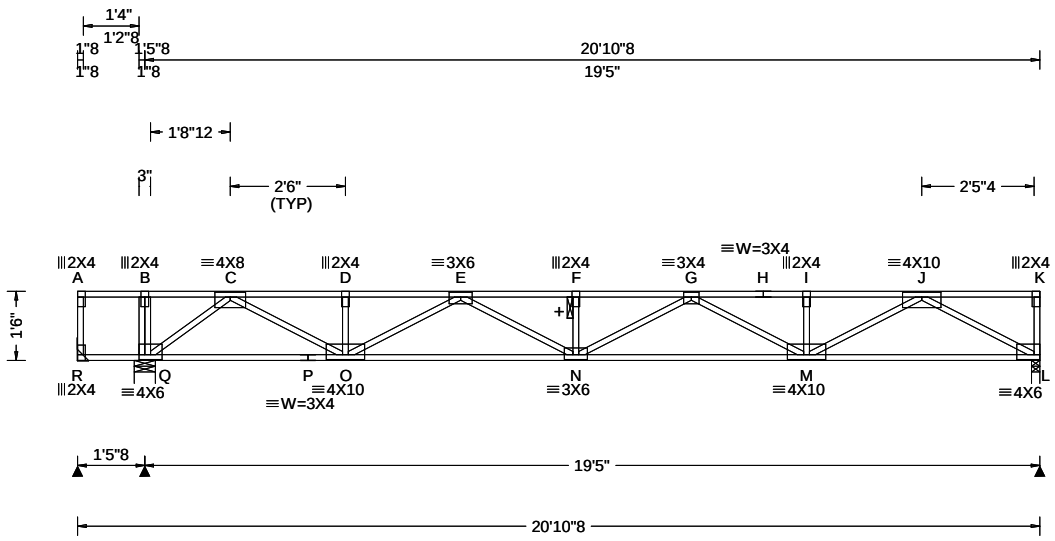
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 9762 SY42 FROM:	Ply: 1 Qty: 36	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19	Cust: R 9316 JRef:1XfQ93160002 T34 DrwNo: 142.22.1742.05727 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.246	F	943	480
VERT(CL): 0.462	F	502	360
HORZ(LL): 0.038	L	-	-
HORZ(TL): 0.072	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.485
Max BC CSI: 0.960
Max Web CSI: 0.397

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	27	/-42	/-	/-	/-	/-
Q	1134	/-	/-	/-	/-	/-
L	962	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	- 2320	G - H	0	- 2651
D - E	0	- 2320	H - I	0	- 2651
E - F	0	- 3393	I - J	0	- 2651
F - G	0	- 3393			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1089	0	N - M	3224	0
P - O	1089	0	M - L	1570	0
O - N	3055	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - C	0	- 1383	G - M	0	- 654
C - O	1407	0	M - J	1233	0
O - E	0	- 839	J - L	0	- 1782
E - N	387	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

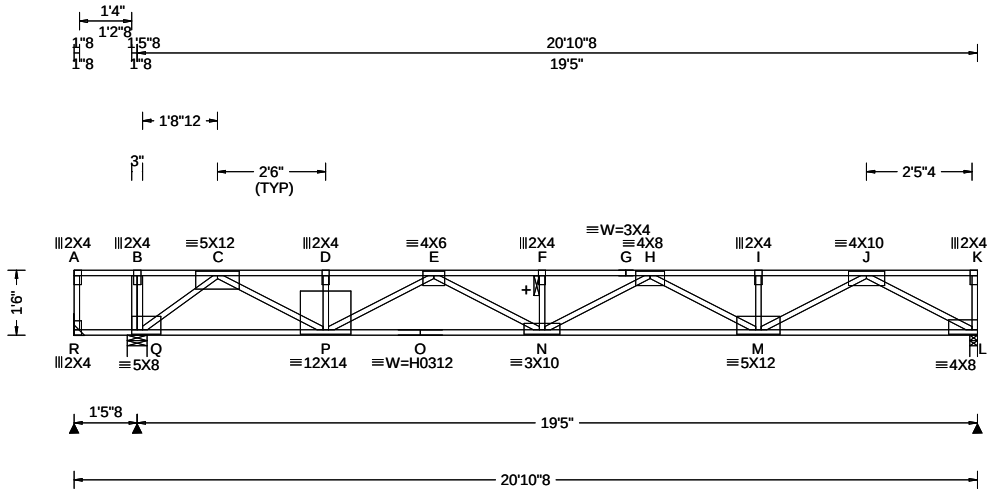
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 9764 SY42 FROM:	Ply: 2 Qty: 6	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F19G	Cust: R 9316 JRef:1XfQ93160002 T8 DrwNo: 142.22.1742.08430 / FK 05/22/2022

2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.290 F 799 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.545 F 426 360
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.041 C - -
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.076 C - -
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.583
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.585
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Varies by Ld Case	Max Web CSI: 0.629
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	VIEW Ver: 21.02.00.1005.17
	I: NA GCpi: NA	WAVE, HS	
	Wind Duration: NA		

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 20.88
BC: From 13 plf at 0.00 to 13 plf at 20.88
TC: 443 lb Conc. Load at 0.94
TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27 7.60, 8.94,10.27,11.60,12.94

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Non-Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
R	24	/-58	/-	/-	/-	/-
Q	3942	/-	/-	/-	/-	/-
L	1997	/-	/-	/-	/-	/-

R Brg Wid = - Min Req = -
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings Q & L are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-3789	G - H	0	-5138
D - E	0	-3789	H - I	0	-3219
E - F	0	-5138	I - J	0	-3219
F - G	0	-5138			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1835	0	N - M	4478	0
P - O	4877	0	M - L	1748	0
O - N	4877	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - Q	0	-465	F - N	0	-473
Q - C	0	-2340	N - H	753	0
C - P	2229	0	H - M	0	-1437
D - P	0	-467	M - J	1679	0
P - E	0	-1242	J - L	0	-1984

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

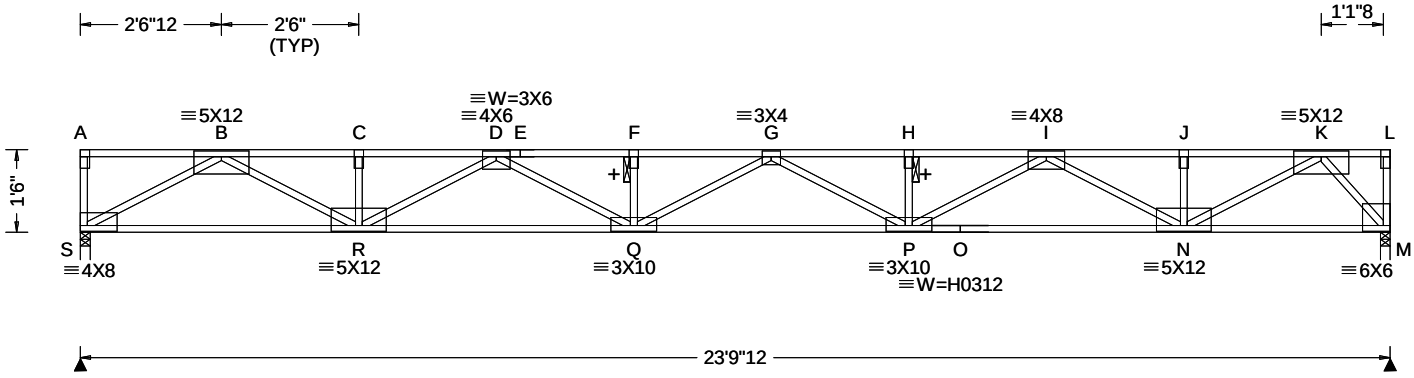
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12714 SY42 FROM:	Ply: 1 Qty: 64	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F21	Cust: R 9316 JRef:1XfQ93160002 T19 DrwNo: 142.22.1742.11230 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.419	G	682	480
VERT(CL): 0.785	G	364	360
HORZ(LL): 0.056	M	-	-
HORZ(TL): 0.104	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.442
Max BC CSI: 0.664
Max Web CSI: 0.556

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	1191	/-	/-	/-	/-	/-
M	1191	/-	/-	/-	/-	/-

S Brg Wid = 2.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings S & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-3491	G - H	0	-4826
C - D	0	-3491	H - I	0	-4826
D - E	0	-5062	I - J	0	-2773
E - F	0	-5062	J - K	0	-2773
F - G	0	-5062			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	1995	0	P - O	4000	0
R - Q	4479	0	O - N	4000	0
Q - P	5145	0	N - M	1047	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	0	-2264	P - I	942	0
B - R	1707	0	I - N	0	-1401
R - D	0	-1127	N - K	1969	0
D - Q	665	0	K - M	0	-1557

Lumber
Top chord: 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

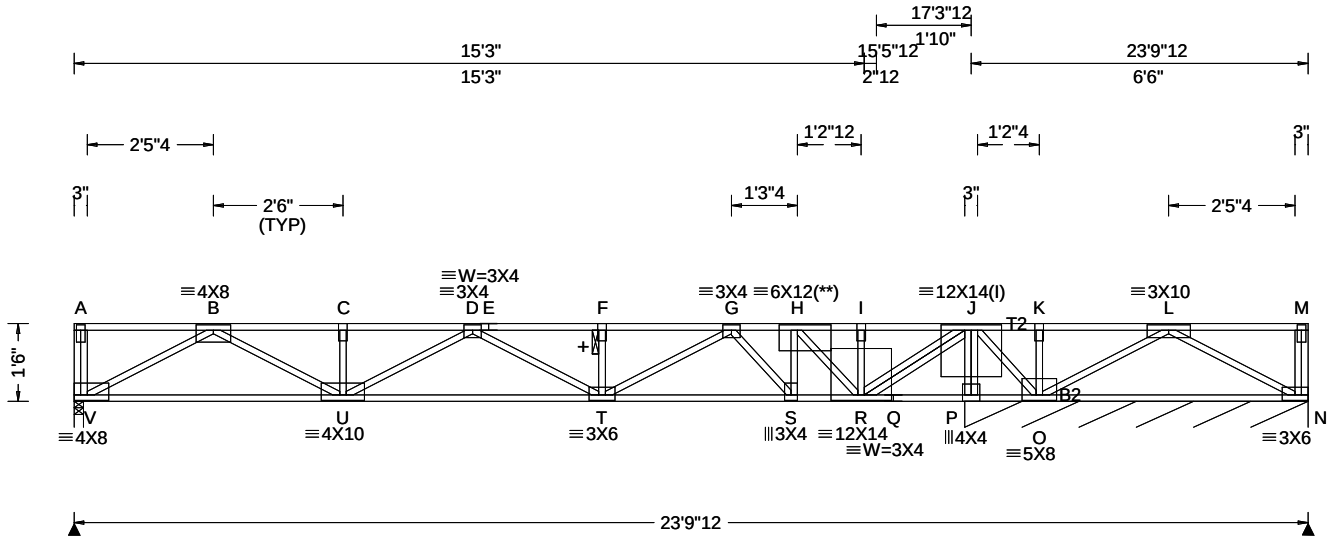
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12716 SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F22	Cust: R 9316 JRef:1XfQ93160002 T2 DrwNo: 142.22.1742.13633 / FK 05/22/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.179 F 999 480
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.335 F 613 360
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.026 B - -
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.049 B - -
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.504
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.472
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: No	Max Web CSI: 0.548
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)	
	Loc. from endwall: NA	Plate Type(s):	
	I: NA GCpi: NA	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: NA		

Lumber

Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)

TC: From	87 plf at	0.00 to	87 plf at	23.81
BC: From	13 plf at	0.00 to	13 plf at	23.81

TC: 1500 lb Conc. Load at 13.90

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	441	/-	/-	/-	/-	/-
N		/-246				

V Brg Wid = 2.1 Min Req = 1.5 (Truss)
N Brg Wid = 79.5 Min Req = -
Bearings V & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	- 2565	G - H	0	- 2521
C - D	0	- 2565	H - I	0	- 698
D - E	0	- 3256	I - J	0	- 698
E - F	0	- 3256	J - K	1825	0
F - G	0	- 3256	K - L	1825	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1507	0	R - Q	0	- 2561
U - T	3113	0	Q - P	0	- 2561
T - S	2904	0	P - O	0	- 2561
S - R	2477	0	O - N	0	- 681

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
V - B	0	- 1714	H - R	0	- 2670
B - U	1208	0	R - J	3882	0
U - D	0	- 625	J - P	0	- 3088
T - G	402	0	J - O	1065	0
G - S	0	- 598	O - L	0	- 1307
S - H	486	0	L - N	779	0

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

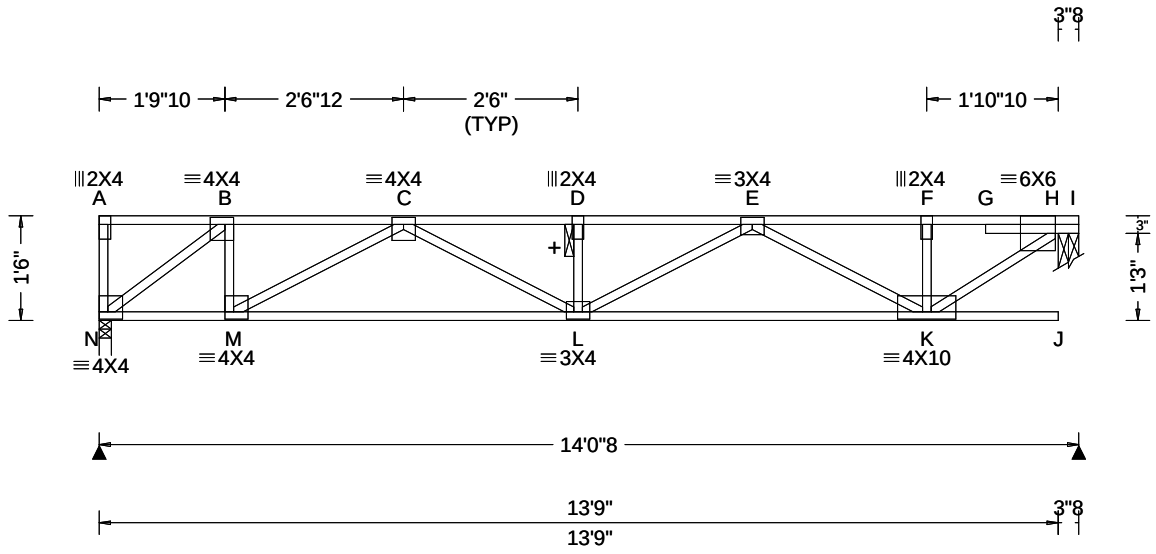
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12718 SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F23	Cust: R 9316 JRef:1XfQ93160002 T25 DrwNo: 142.22.1742.16117 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.092	D	999	480
VERT(CL): 0.172	D	970	360
HORZ(LL): 0.016	B	-	-
HORZ(TL): 0.029	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.613
Max BC CSI: 0.522
Max Web CSI: 0.325

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	694	/-	/-	/-	/-	/-
H	707	/-	/-	/-	/-	/-

N Brg Wid = 2.1 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	0	-869	E - F	0	-931
C - D	0	-1793	F - H	0	-930
D - E	0	-1793			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	831	0	L - K	1548	0
M - L	1525	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	0	-1045	E - K	0	-704
B - M	425	0	K - H	1152	0
M - C	0	-752			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

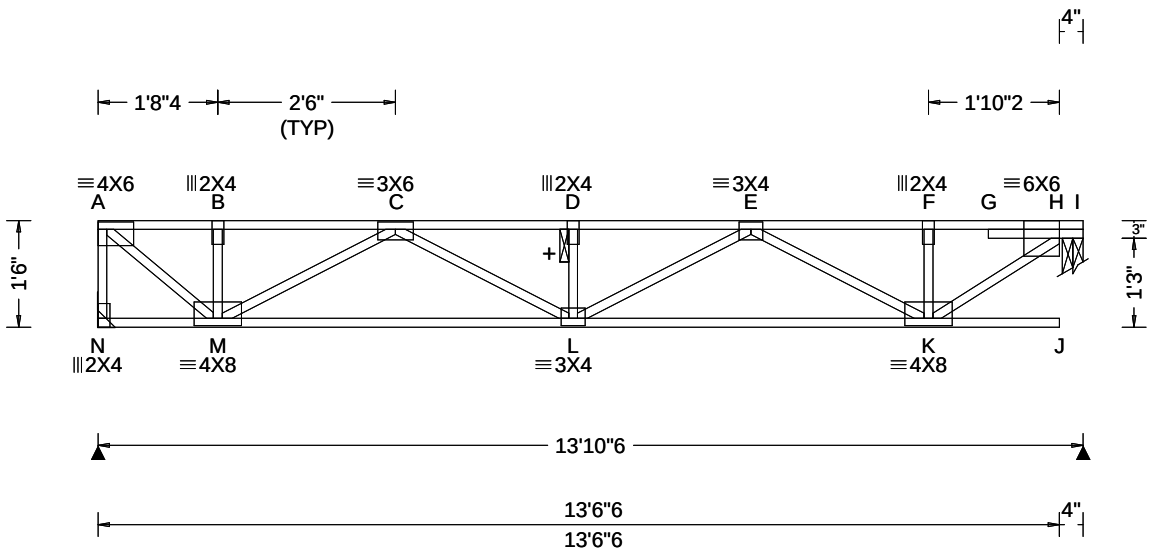
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12720 SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F24	Cust: R 9316 JRef:1XfQ93160002 T3 DrwNo: 142.22.1743.22627 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.090	D	999	480
VERT(CL): 0.167	D	982	360
HORZ(LL): 0.014	B	-	-
HORZ(TL): 0.026	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.604
Max BC CSI: 0.513
Max Web CSI: 0.320

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	685	/-	/-	/-	/-	/-
H	697	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing H is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	0	-776	D - E	0	-1749
B - C	0	-776	E - F	0	-917
C - D	0	-1749	F - H	0	-916

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	1463	0	L - K	1518	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - N	0	-684	E - K	0	-687
A - M	1001	0	K - H	1134	0
M - C	0	-784			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

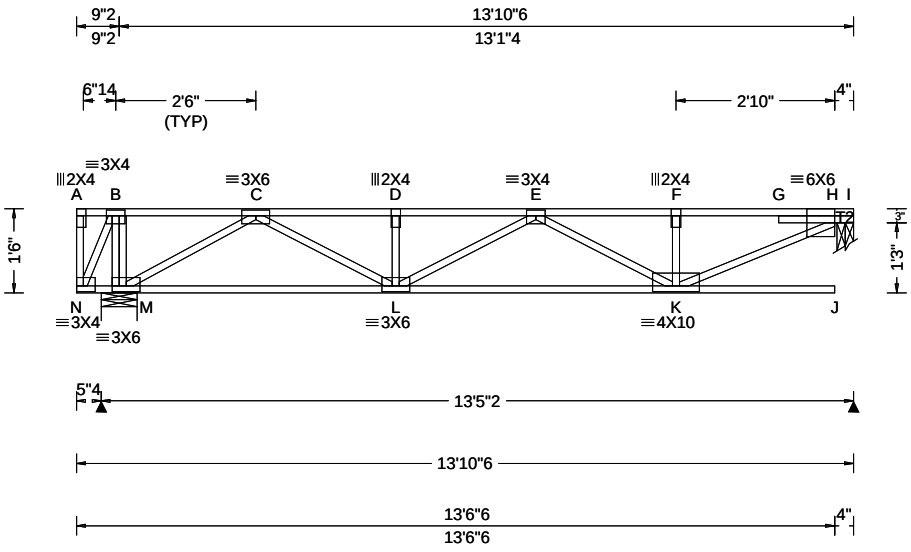
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12722 SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F25	Cust: R 9316 JRef:1XfQ93160002 T11 DrwNo: 142.22.1743.24943 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.197	J	784	480
VERT(CL): 0.316	J	488	360
HORZ(LL): 0.013	A	-	-
HORZ(TL): 0.024	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.609
Max BC CSI: 0.630
Max Web CSI: 0.367

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

		Gravity		Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
M	729	/-	/-	/-	/-	/-
H	659	/-	/-	/-	/-	/-

M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
C - D	0	-1447	E - F	0	-1177
D - E	0	-1447	F - H	0	-1178

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	912	0	L - K	1482	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	-1015	K - H	1301	0
C - L	614	0			

Lumber

Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

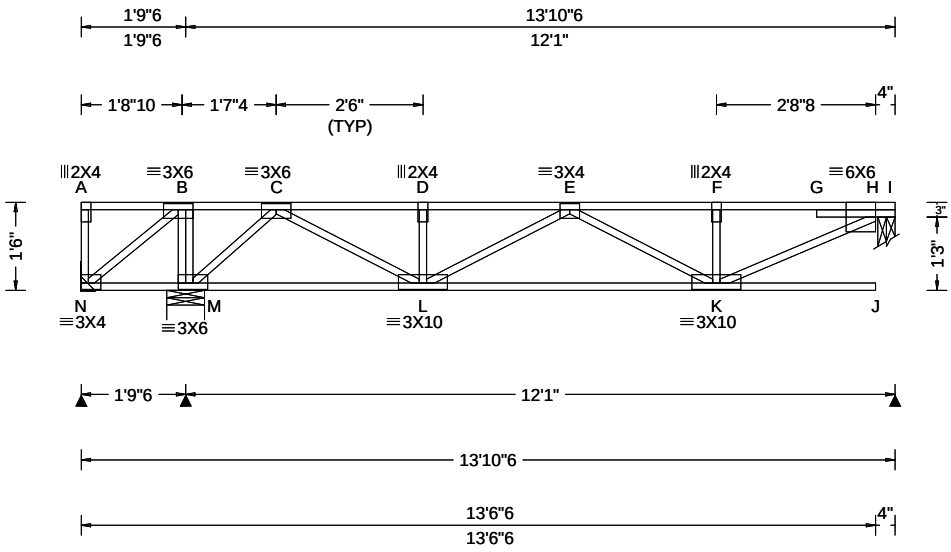
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12724 SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F26	Cust: R 9316 JRef:1XfQ93160002 T5 DrwNo: 142.22.1743.27100 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.158	J	897	480
VERT(CL): 0.249	J	570	360
HORZ(LL): 0.007	C	-	-
HORZ(TL): 0.013	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.823
Max BC CSI: 0.493
Max Web CSI: 0.284

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	-	/-358	/-	/-	/-	/-
M	1154	/-	/-	/-	/-	/-
H	547	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	510	0	E - F	0	-902
C - D	0	-819	F - H	0	-903
D - E	0	-819			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	0	-465	L - K	1035	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	596	0	C - L	815	0
B - M	0	-533	K - H	1005	0
M - C	0	-843			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

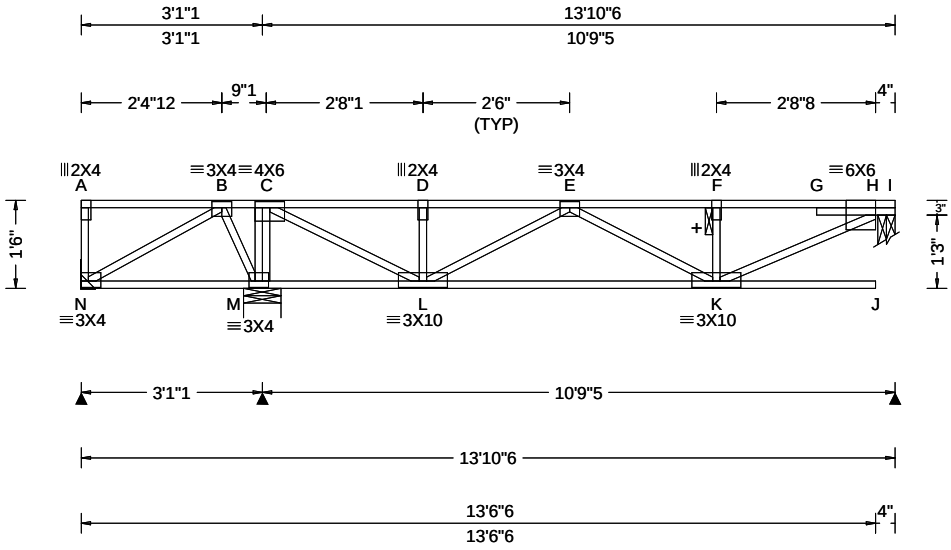
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12726 SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F27	Cust: R 9316 JRef:1XfQ93160002 T9 DrwNo: 142.22.1743.29187 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.147	J	869	480
VERT(CL): 0.233	J	549	360
HORZ(LL): 0.004	C	-	-
HORZ(TL): 0.007	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.748
Max BC CSI: 0.436
Max Web CSI: 0.272

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	44	/-139	/-	/-	/-	/-
M	963	/-	/-	/-	/-	/-
H	491	/-	/-	/-	/-	/-

N Brg Wid = - Min Req = -
M Brg Wid = 7.7 Min Req = 1.5 (Truss)
H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings M & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	427	0	E - F	0	- 782
C - D	0	- 495	F - H	0	- 784
D - E	0	- 495			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
L - K	815	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	- 633	K - H	872	0
C - L	964	0			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

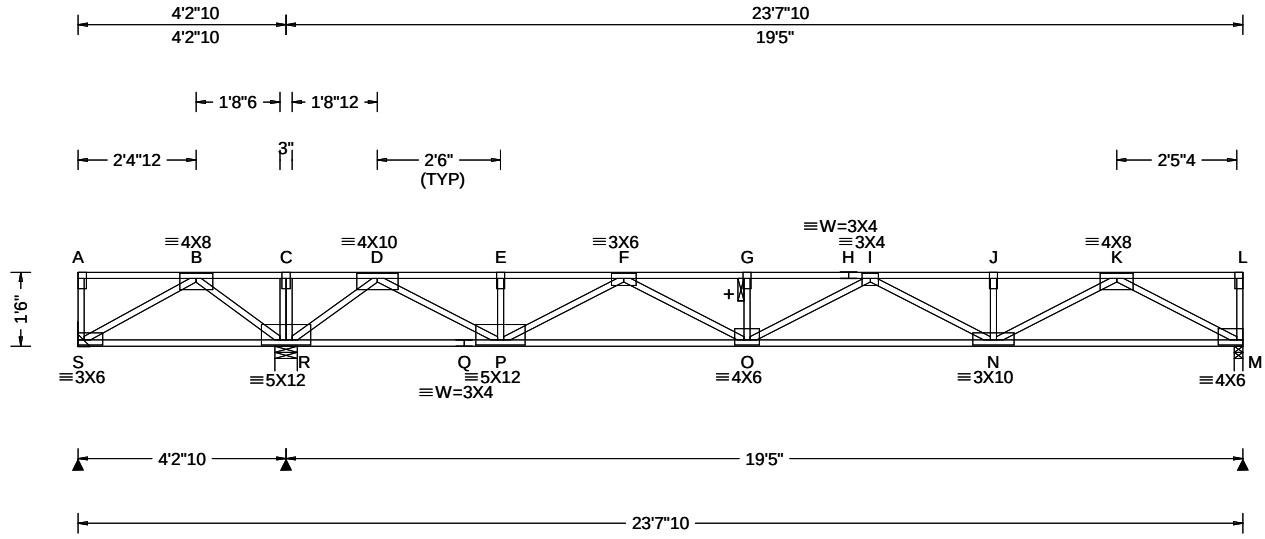
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12728 SY42 FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** F28	Cust: R 9316 JRef:1XfQ93160002 T10 DrwNo: 142.22.1743.32467 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.196	G	999	480
VERT(CL): 0.369	G	630	360
HORZ(LL): 0.021	M	-	-
HORZ(TL): 0.039	M	-	-

Creep Factor: 2.0
Max TC CSI: 0.660
Max BC CSI: 0.795
Max Web CSI: 0.467

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	-	/-490	/-	/-	/-	/-
R	1906	/-	/-	/-	/-	/-
M	843	/-	/-	/-	/-	/-

S Brg Wid = - Min Req = -
R Brg Wid = 5.5 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings R & M are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1763	0	G - H	0	- 2527
C - D	1763	0	H - I	0	- 2527
D - E	0	- 1026	I - J	0	- 2216
E - F	0	- 1026	J - K	0	- 2216
F - G	0	- 2527			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
S - R	0	- 944	P - O	1976	0
R - Q	0	- 440	O - N	2573	0
Q - P	0	- 440	N - M	1350	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
S - B	1088	0	F - O	633	0
B - R	0	- 1142	I - N	0	- 408
R - D	0	- 1649	N - K	988	0
D - P	1656	0	K - M	0	- 1532
P - F	0	- 1087			

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -490# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

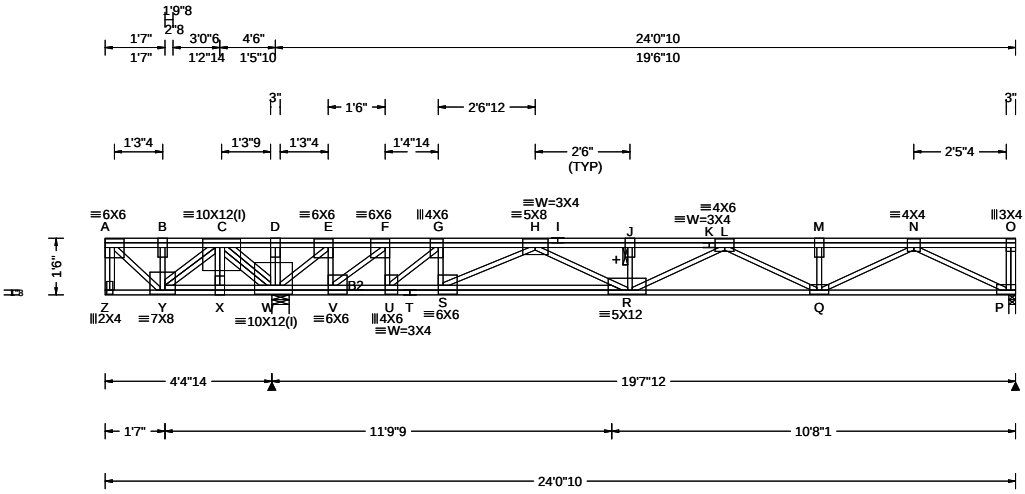
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12730 SY42	Ply: 2	**Job Number:** JB-220699	Cust: R 9316 JRef:1XfQ93160002 T12
FROM:	Qty: 4	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1743.35360
		Truss Label: F28G	/ FK 05/22/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	40.00
TCDL:	25.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	75.00
NCBCLL:	0.00
Soffit:	0.00
Load Duration:	1.00
Spacing:	16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: No
FT/RT:12(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.120	A	443	480
VERT(CL): 0.268	Z	198	360
HORZ(LL): -0.025	A	-	-
HORZ(TL): 0.057	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.433
Max BC CSI: 0.260
Max Web CSI: 0.271

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

Loc	Gravity R+	Gravity / R-	Gravity / Rh	Non-Gravity / Rw	Non-Gravity / U	Non-Gravity / RL
W	8750	/-	/-	/-	/-	/-
P	618	/-243	/-	/-	/-	/-

W Brg Wid = 5.5 Min Req = 1.5 (Truss)
P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings W & P are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	597	0	H - I	1855	-383
B - C	597	0	I - J	1855	-383
C - D	5342	0	J - K	1853	-389
D - E	5337	0	K - L	1853	-389
E - F	4767	0	L - M	685	-689
F - G	4126	0	M - N	685	-689
G - H	3551	0			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Y - X	0	-1645	T - S	0	-3597
X - W	0	-1635	S - R	0	-2646
W - V	0	-4815	R - Q	647	-1215
V - U	0	-4178	Q - P	456	-296
U - T	0	-3597			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - Y	0	-789	G - S	577	0
Y - C	1366	0	S - H	0	-1230
C - W	0	-5021	H - R	961	0
W - E	0	-1030	R - L	0	-716
E - V	677	0	L - Q	599	0
V - F	0	-1093	Q - N	264	-439
F - U	694	0	N - P	330	-495
U - G	0	-980			

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.05
BC: From 13 plf at 0.00 to 13 plf at 24.05
TC: 1129 lb Conc. Load at 0.12
TC: 5500 lb Conc. Load at 3.03

Plating Notes

All plates are 3X6 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

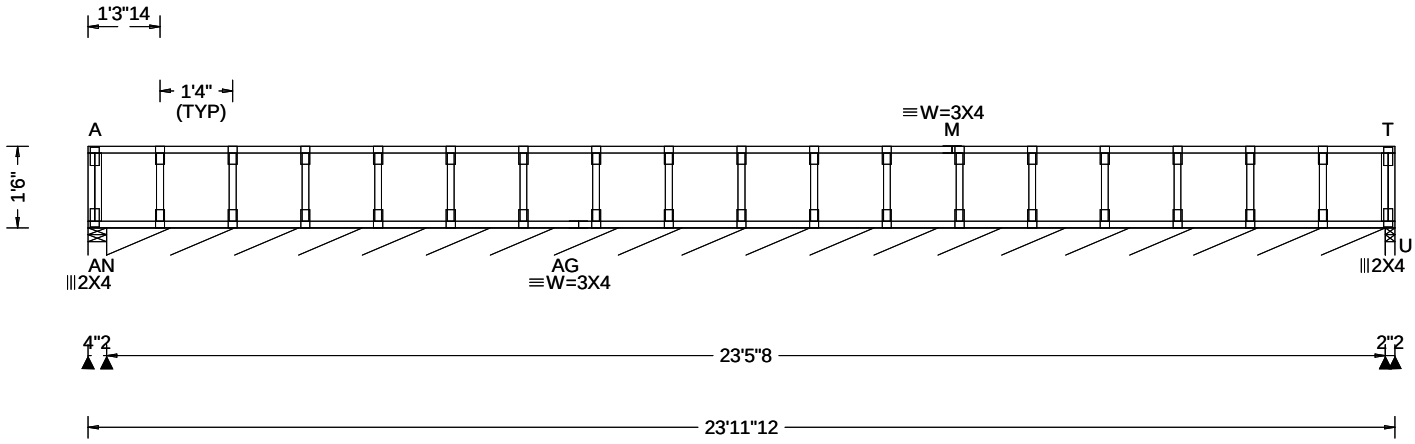
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12732 SY42 FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L11	Cust: R 9316 JRef:1XfQ93160002 T29 DrwNo: 142.22.1743.37543 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 T 999 480 VERT(CL): 0.001 T 999 360 HORZ(LL): -0.003 B - - HORZ(TL): 0.005 B - - Creep Factor: 2.0 Max TC CSI: 0.060 Max BC CSI: 0.013 Max Web CSI: 0.018 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity		Non-Gravity		
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
AN	68 /-	/-	/-	/-	/-
AN*	97 /-	/-	/-	/-	/-
U	64 /-	/-	/-	/-	/-

AN Brg Wid = 4.1 Min Req = 1.5 (Truss)
AN Brg Wid = 281 Min Req = -
U Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AN, AN, & U are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

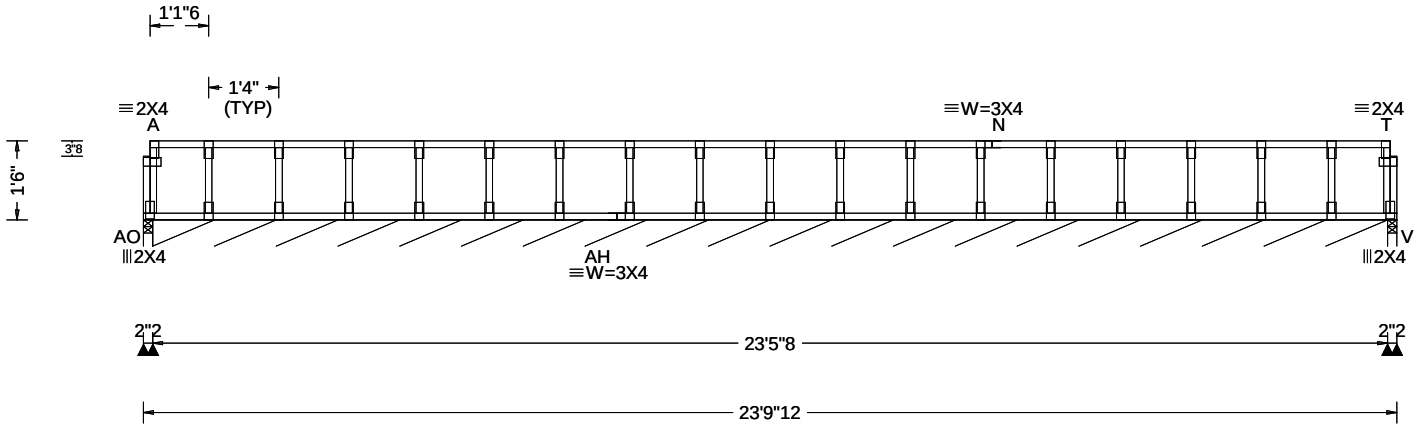
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12734 SY42 FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** L21	Cust: R 9316 JRef:1XfQ93160002 T30 DrwNo: 142.22.1743.43040 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 40.00
TCDL: 25.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 75.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.00
Spacing: 16.0 "

Wind Criteria
Wind Std: NA
Speed: NA mph
Enclosure: NA
Category: NA
EXP: NA Kzt: NA
Mean Height: NA ft
TCDL: NA psf
BCDL: NA psf
MWFRS Parallel Dist: NA
C&C Dist a: NA ft
Loc. from endwall: NA
I: NA GCpi: NA
Wind Duration: NA

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	T	999	480
VERT(CL): 0.000	T	999	360
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.057
Max BC CSI: 0.009
Max Web CSI: 0.018

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
AO	48	/-	/-	/-	/-	/-
AO	*97	/-	/-	/-	/-	/-
V	48	/-	/-	/-	/-	/-

AO Brg Wid = 2.1 Min Req = 1.5 (Truss)
AO Brg Wid = 281 Min Req = -
V Brg Wid = 2.1 Min Req = 1.5 (Truss)
Bearings AO, AO, & V are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

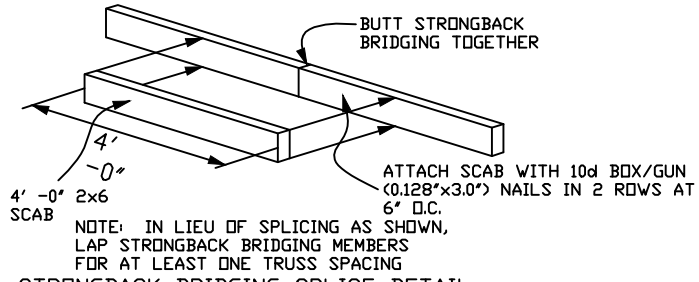
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

05/22/2022

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

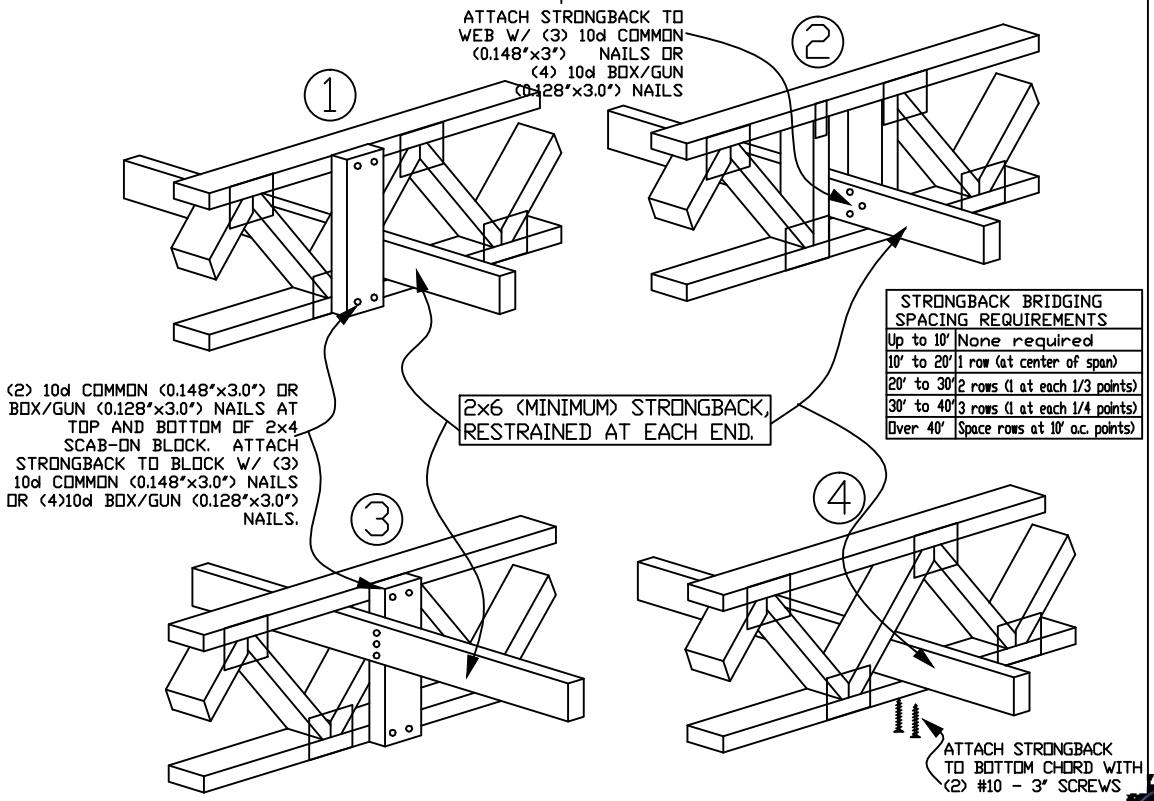
Building 14

STRONGBACK BRIDGING RECOMMENDATIONS



STRONGBACK BRIDGING SPLICE DETAIL

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING SPACING REQUIREMENTS	
Up to 10'	None required
10' to 20'	1 row (at center of span)
20' to 30'	2 rows (1 at each 1/3 points)
30' to 40'	3 rows (1 at each 1/4 points)
Over 40'	Space rows at 10' o.c. points)

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

- All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

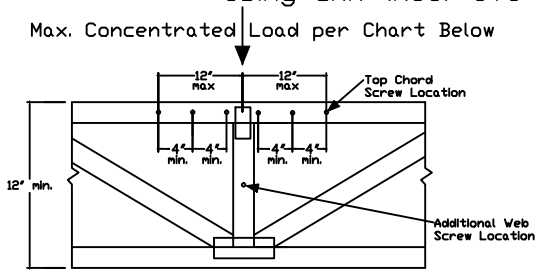
TC LL	PSF	REF STRONGBACK
TC DL	PSF	DATE 10/01/14
BC DL	PSF	DRWG STRBRIBR1014
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.	1.00	
SPACING		

22/2022

Building 14

System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.

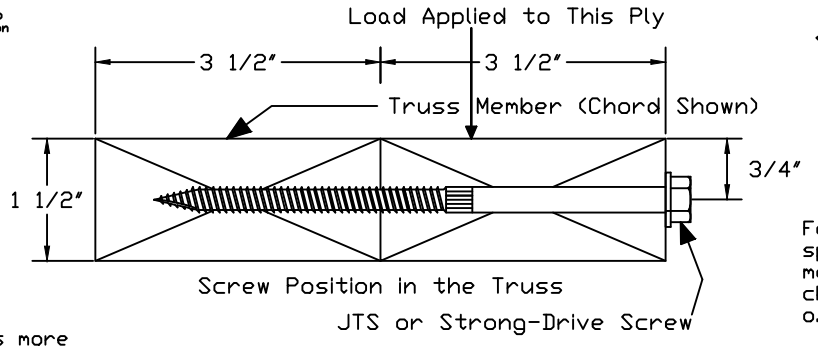


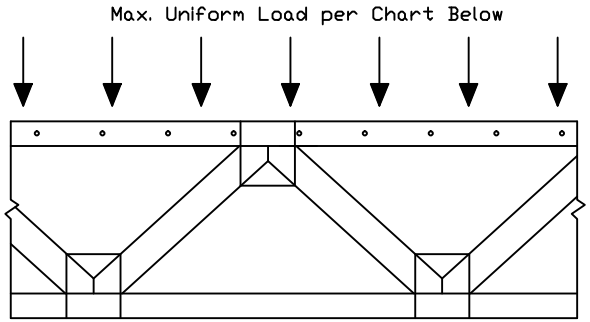
Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

Refer to Alpine sealed drawing for individual truss design.





For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL		PSF
TC DL		PSF
BC DL		PSF
BC LL		PSF
TOT. LD.		PSF
DUR. FAC.	1.00	
SPACING		

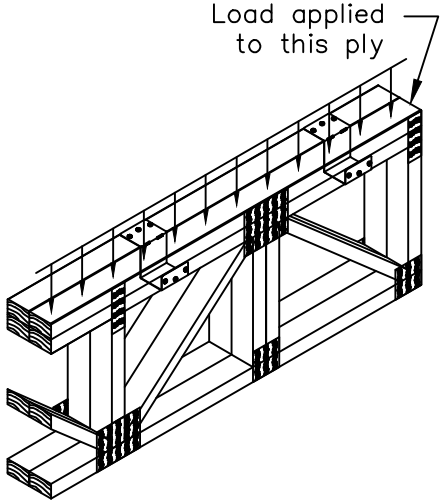
REF	SY42 Connection
DATE	01/19/2018
DRWG	CNSY42PL0118

Building 14

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL

FOR DOWNWARD LOADS ONLY

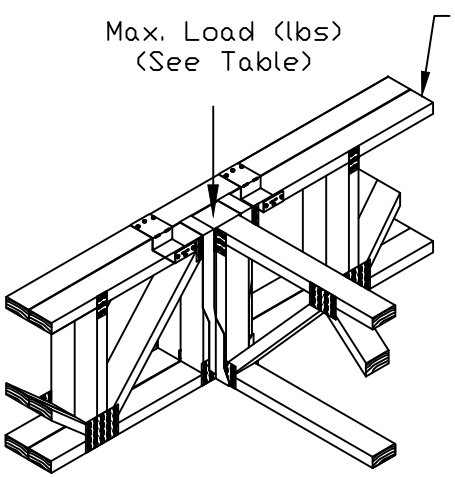
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application



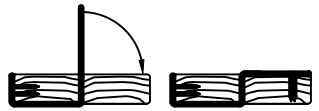
Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

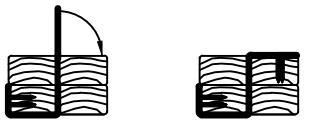
Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.

2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.

ALPINE®
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

22/2022

DUR. FAC. ALL

REF	SY42 Connection
DATE	10/01/14
DRWG	LSCSYX2A1014

Building 14

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/22/2022

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 BY: CB

Site Information:	**Page 1:**
Customer: Mill Creek Truss	*Job Number:* JB-220700
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	*IntelliVIEW Version:* 21.02.00 *JRef #:* 1XfQ93160003
Wind Standard: ASCE 7-16 *Wind Speed (mph):* 109 *Building Type:* Closed	*Design Loading (psf):* 65.00

This package contains general notes pages, 128 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	142.22.1744.28663	J02	2	142.22.1744.31363	J02A
3	142.22.1744.33667	J02G	4	142.22.1744.35963	J02GA
5	142.22.1744.38277	J03	6	142.22.1744.40787	J03A
7	142.22.1744.43700	T01	8	142.22.1744.46240	T01A
9	142.22.1744.49257	T02A	10	142.22.1744.51863	T03A
11	142.22.1744.55193	T04A	12	142.22.1744.59533	T05A
13	142.22.1745.01960	T06A	14	142.22.1745.04300	T07A
15	142.22.1745.06667	T08A	16	142.22.1745.09163	T10
17	142.22.1745.38190	T10A	18	142.22.1745.40563	T11
19	142.22.1745.43183	T11A	20	142.22.1745.45580	T12
21	142.22.1745.47920	T12A	22	142.22.1745.50243	T13
23	142.22.1745.52550	T13A	24	142.22.1745.54800	T14
25	142.22.1745.57430	T14A	26	142.22.1746.05160	T15
27	142.22.1746.07693	T15A	28	142.22.1746.10180	T17
29	142.22.1746.12860	T17A	30	142.22.1746.15680	T18
31	142.22.1746.18560	T18A	32	142.22.1746.21343	T19
33	142.22.1746.23877	T19A	34	142.22.1746.26870	T20
35	142.22.1746.29637	T20A	36	142.22.1746.32250	T21
37	142.22.1746.34777	T21A	38	142.22.1746.37470	T22
39	142.22.1746.40240	T22A	40	142.22.1746.42947	T23
41	142.22.1746.45490	T23A	42	142.22.1746.48120	T24
43	142.22.1746.50930	T24A	44	142.22.1746.53663	T25
45	142.22.1746.56357	T25A	46	142.22.1746.59010	T26
47	142.22.1747.01643	T26A	48	142.22.1747.04203	T27
49	142.22.1747.06820	T27A	50	142.22.1747.09547	T28

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/22/2022

Site Information:	Page 2:
Customer: Mill Creek Truss	*Job Number:* JB-220700
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	142.22.1747.12337	T28A
53	142.22.1747.31687	T29A
55	142.22.1747.37363	T30A
57	142.22.1747.43073	T31A
59	142.22.1747.48620	T33A
61	142.22.1747.54217	T34A
63	142.22.1748.00200	T35A
65	142.22.1748.05820	T36A
67	142.22.1748.11457	T37A
69	142.22.1748.17110	T38A
71	142.22.1748.23230	T39A
73	142.22.1748.29127	T40A
75	142.22.1748.35043	T41A
77	142.22.1748.40637	T42A
79	142.22.1748.46480	T43A
81	142.22.1748.52203	T44A
83	142.22.1748.57717	T45A
85	142.22.1749.03270	T46A
87	142.22.1749.08757	T47A
89	142.22.1749.13873	T49
91	142.22.1749.19027	T50
93	142.22.1749.24320	T51A
95	142.22.1749.29880	T52A
97	142.22.1749.35263	TGE02
99	142.22.1749.40890	TGE04
101	142.22.1749.46627	TGE06
103	142.22.1749.52087	TGE08
105	142.22.1749.57423	TGE10
107	142.22.1750.52540	TGE12
109	142.22.1750.58110	TGE14
111	142.22.1751.06753	TGE16
113	142.22.1751.12013	TGE18
115	142.22.1751.17440	TGE20

Item	Drawing Number	Truss
52	142.22.1747.14950	T29
54	142.22.1747.34627	T30
56	142.22.1747.40307	T31
58	142.22.1747.45727	T33
60	142.22.1747.51550	T34
62	142.22.1747.57210	T35
64	142.22.1748.03030	T36
66	142.22.1748.08630	T37
68	142.22.1748.14423	T38
70	142.22.1748.20577	T39
72	142.22.1748.26080	T40
74	142.22.1748.32087	T41
76	142.22.1748.37777	T42
78	142.22.1748.43550	T43
80	142.22.1748.49320	T44
82	142.22.1748.54930	T45
84	142.22.1749.00387	T46
86	142.22.1749.06050	T47
88	142.22.1749.11213	T48A
90	142.22.1749.16527	T49A
92	142.22.1749.21637	T50A
94	142.22.1749.27440	T52
96	142.22.1749.32510	TGE01
98	142.22.1749.38103	TGE03
100	142.22.1749.43713	TGE05
102	142.22.1749.49447	TGE07
104	142.22.1749.54590	TGE09
106	142.22.1750.49620	TGE11
108	142.22.1750.55223	TGE13
110	142.22.1751.00650	TGE15
112	142.22.1751.09360	TGE17
114	142.22.1751.14700	TGE19
116	142.22.1751.20053	TGE21

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/22/2022

Site Information:	Page 3:
Customer: Mill Creek Truss	*Job Number:* JB-220700
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
117	142.22.1751.22523	TGE22
119	142.22.1751.28050	T09A
121	142.22.1751.35613	T16
123	142.22.1751.51530	TGE24
125	142.22.1751.58483	T16A
127	142.22.1752.07273	J02C
129	A11530ENC160118	
131	GBLLETIN0118	
133	DEFLCAMB1014	

Item	Drawing Number	Truss
118	142.22.1751.25090	TGE23
120	142.22.1751.32310	T32
122	142.22.1751.48310	T48
124	142.22.1751.54323	T08
126	142.22.1752.01647	T32A
128	142.22.1752.15687	T09
130	GABRST160118	
132	BRCLBSUB0119	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:
The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:
Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:
The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:
Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:
Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.
BCLL = Bottom Chord standard design Live Load in pounds per square foot.
CL = Certified lumber.
Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.
FRT = Fire Retardant Treated lumber.
FRT-DB = D-Blaze Fire Retardant Treated lumber.
FRT-DC = Dricon Fire Retardant Treated lumber.
FRT-FP = FirePRO Fire Retardant Treated lumber.
FRT-FL = FlamePRO Fire Retardant Treated lumber.
FRT-FT = FlameTech Fire Retardant Treated lumber.
FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.
g = green lumber.
HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.
HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.
HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.
Ic = Incised lumber.
FJ = Finger Jointed lumber.
L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.
L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.
Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.
Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.
Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.
Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.
NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.
PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.
PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds
PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.
PP = Panel Point.
R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).
Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).
RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).
TCDL = Top Chord standard design Dead Load in pounds per square foot.
TCLL = Top Chord standard design Live Load in pounds per square foot.
U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).
VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.
VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.
VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.
W = Width of non-hanger bearing, in inches.

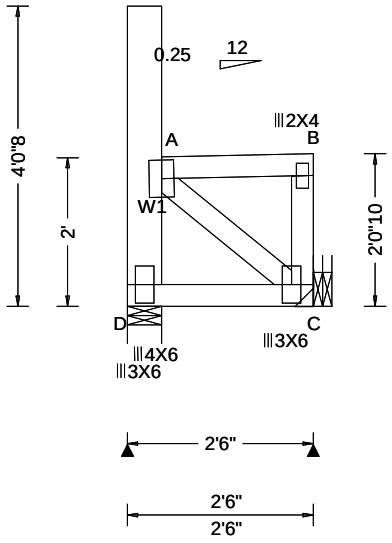
Refer to ASCE-7 for Wind and Seismic abbreviations.
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www. sbcacomponents.com.

Building 14

SEQN: 37817 MONO FROM:	Ply: 1 Qty: 18	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02	Cust: R 9316 JRef:1XfQ93160003 T193 DrwNo: 142.22.1744.28663 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 B - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -
NCBCLL: 0.00	Mean Height: 21.03 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.103
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.079
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.131
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	147	/-	/-	/114	/79	/90
C	173	/-	/-	/157	/63	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
A - C	238	-387

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

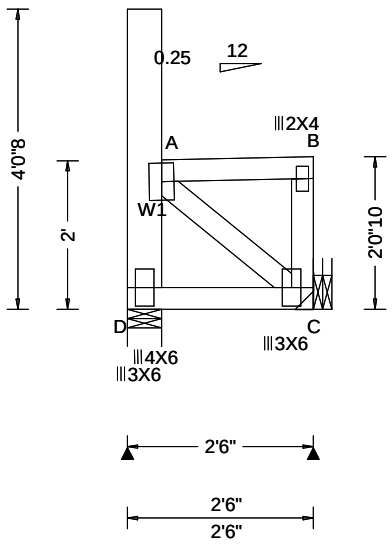
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37818 MONO FROM:	Ply: 1 Qty: 17	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02A	Cust: R 9316 JRef:1XfQ93160003 T218 DrwNo: 142.22.1744.31363 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 B - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -
NCBCLL: 0.00	Mean Height: 21.70 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.103
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.079
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.131
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	147	/-	/-	/114	/80	/91
C	173	/-	/-	/158	/64	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
A - C	240	-390

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

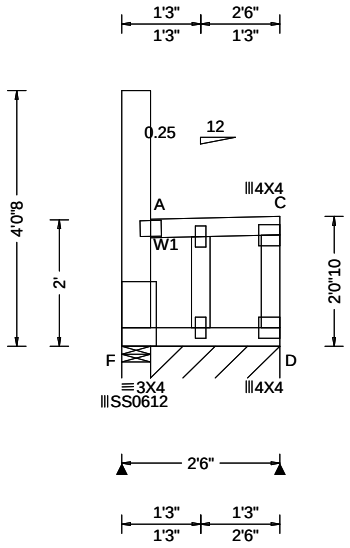
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37820 GABL FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02G	Cust: R 9316 JRef:1XfQ93160003 T109 DrwNo: 142.22.1744.33667 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
18SS, WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.005 A	999	360
VERT(CL):	0.007 A	999	240
HORZ(LL):	0.091 A	-	-
HORZ(TL):	0.104 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.128
Max BC CSI: 0.370
Max Web CSI: 0.163

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	47	/-	/-	/123	/145	/98
D*	134	/-	/-	/129	/57	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 24.5 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

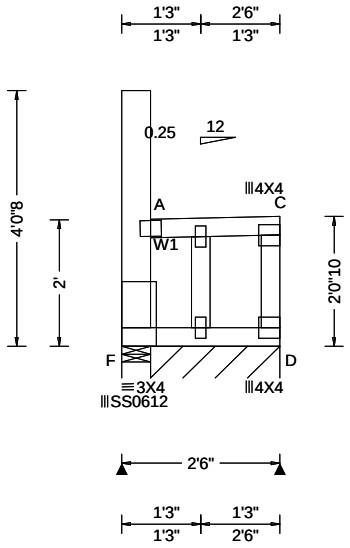
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37821 GABL FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02GA	Cust: R 9316 JRef:1XfQ93160003 T1 DrwNo: 142.22.1744.35963 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.03 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
18SS, WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.005 A	999	360
VERT(CL):	0.007 A	999	240
HORZ(LL):	0.091 A	-	-
HORZ(TL):	0.104 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.128
Max BC CSI: 0.370
Max Web CSI: 0.163

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	47	/-	/-	/123	/145	/98
D*	134	/-	/-	/129	/57	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 24.5 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

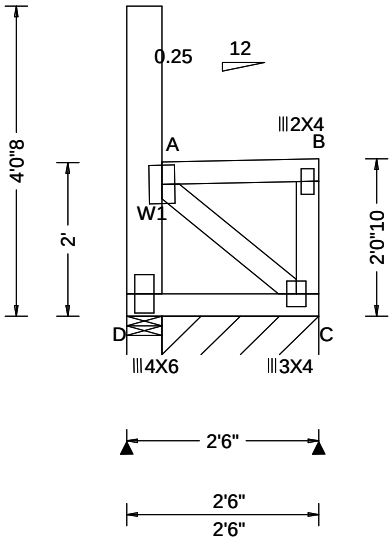
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37822 MONO FROM:	Ply: 1 Qty: 6	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J03	Cust: R 9316 JRef:1XfQ93160003 T133 DrwNo: 142.22.1744.38277 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 B - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -
NCBCLL: 0.00	Mean Height: 21.03 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.103
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.079
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.105
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 14.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	147	/-	/-	/122	/85	/98
C*	85	/-	/-	/78	/33	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = 24.5 Min Req = -
Bearings D & D are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

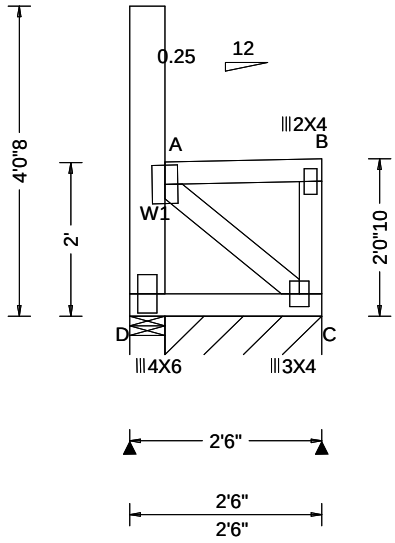
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37823 MONO FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J03A	Cust: R 9316 JRef:1XfQ93160003 T135 DrwNo: 142.22.1744.40787 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 B - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -
NCBCLL: 0.00	Mean Height: 21.70 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.103
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.079
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.106
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 14.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	147	/-	/-	/123	/86	/99
C*	85	/-	/-	/78	/34	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = 24.5 Min Req = -
Bearings D & D are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

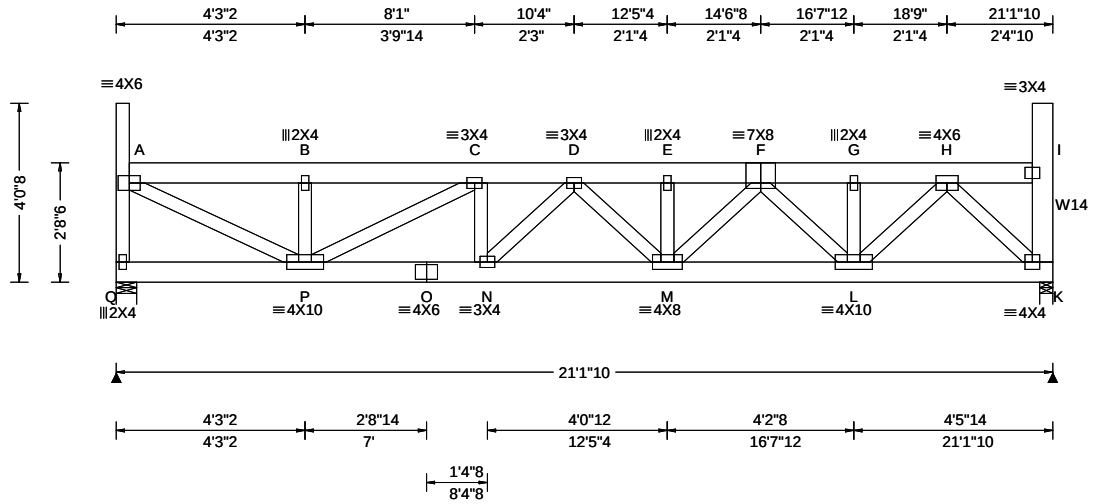
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37944 FLAT FROM:	Ply: 3 Qty: 3	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T01	Cust: R 9316 JRef:1XfQ93160003 T11 DrwNo: 142.22.1744.43700 / FK 05/22/2022	

3 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.062	D	999	360
VERT(CL): 0.116	D	999	240
HORZ(LL): 0.015	K	-	-
HORZ(TL): 0.027	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.058
Max BC CSI: 0.302
Max Web CSI: 0.302

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	2043	/-	/-	/-	/118	/-
K	2421	/-	/-	/-	/151	/-

Wind reactions based on MWFRS
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
K Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings Q & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	69	- 1145	E - F	156	- 2330
B - C	68	- 1141	F - G	94	- 1454
C - D	117	- 1866	G - H	94	- 1454
D - E	156	- 2330			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	1823	- 114	M - L	1926	- 127
O - N	1823	- 114	L - K	802	- 52
N - M	2119	- 138			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - A	38	- 641	M - F	589	- 42
A - P	1229	- 74	F - L	49	- 689
P - C	53	- 791	L - H	953	- 62
N - D	32	- 383	H - K	70	- 1088

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 9.00" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	70 plf at	0.29 to	70 plf at	20.68	
BC: From	60 plf at	0.00 to	60 plf at	21.14	

BC: 1769 lb Conc. Load at 12.90

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.39	1.34	13.80	3.32
20.68	0.00	20.39	1.34	13.80	3.32

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

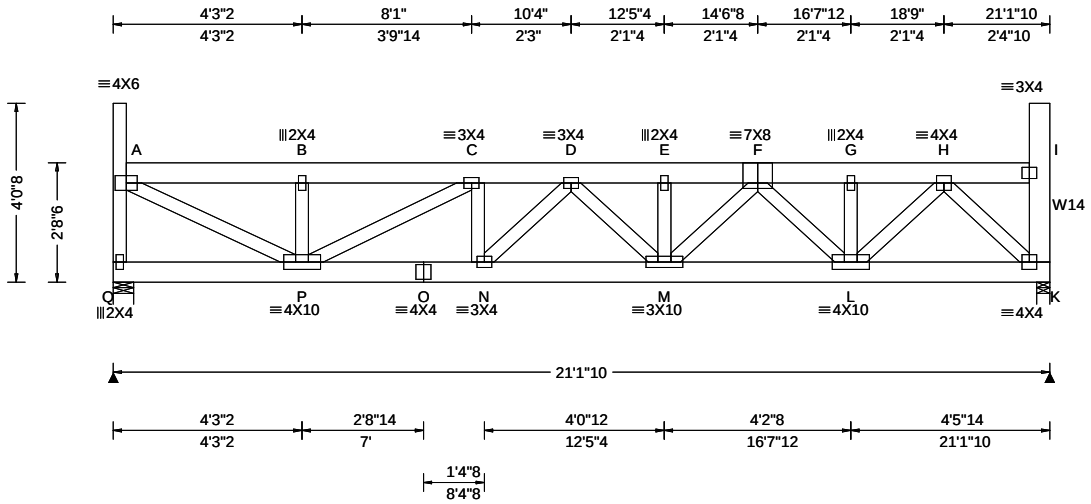
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37942 FLAT FROM:	Ply: 3 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T01A	Cust: R 9316 JRef:1XfQ93160003 T9 DrwNo: 142.22.1744.46240 / FK 05/22/2022	

3 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.060	D	999	360
VERT(CL): 0.111	D	999	240
HORZ(LL): 0.014	K	-	-
HORZ(TL): 0.026	K	-	-

Creep Factor: 2.0
Max TC CSI: 0.054
Max BC CSI: 0.283
Max Web CSI: 0.291

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	1981	/-	/-	/-	/118	/-
K	2325	/-	/-	/-	/150	/-

Wind reactions based on MWFRS
Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
K Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearings Q & K are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	68	- 1106	E - F	155	- 2215
B - C	68	- 1102	F - G	93	- 1390
C - D	116	- 1792	G - H	93	- 1390
D - E	155	- 2215			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	1751	- 113	M - L	1836	- 126
O - N	1751	- 113	L - K	768	- 51
N - M	2024	- 137			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - A	38	- 620	F - L	48	- 652
A - P	1188	- 73	L - H	908	- 61
P - C	53	- 752	H - K	70	- 1041
M - F	554	- 42			

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 9.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	70 plf at	0.29 to	70 plf at	20.68	
BC: From	60 plf at	0.00 to	60 plf at	21.14	

BC: 1611 lb Conc. Load at 12.90

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.39	1.34	13.80	3.32
20.68	0.00	20.39	1.34	13.80	3.32

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

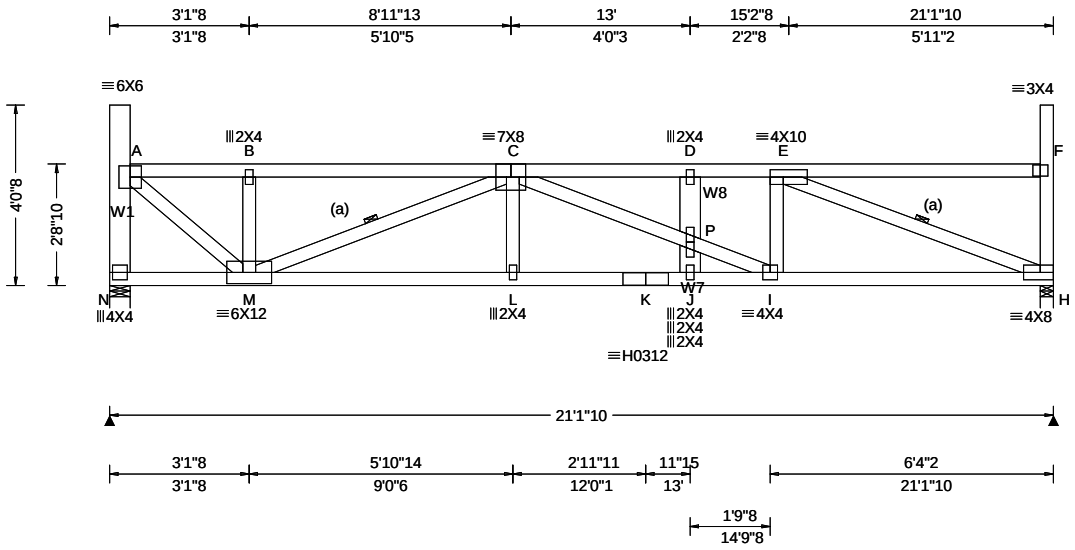
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37824 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T02A	Cust: R 9316 JRef:1XfQ93160003 T165 DrwNo: 142.22.1744.49257 / FK 05/22/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.138	D	999	360
VERT(CL): 0.256	D	990	240
HORZ(LL): 0.036	H	-	-
HORZ(TL): 0.066	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.439
Max BC CSI: 0.523
Max Web CSI: 0.606

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1340	/-	/-	/640	/77	/121
H	1352	/-	/-	/645	/79	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 1.7 (Truss)
H Brg Wid = 3.5 Min Req = 1.7 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	137	- 1624	C - D	147	- 2651
B - C	136	- 1621	D - E	147	- 2651

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	3043	- 237	J - I	3043	- 237
L - K	3043	- 237	I - H	2579	- 164
K - J	3043	- 237			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	81	- 1286	P - I	95	- 436
A - M	1934	- 123	I - E	605	- 3
M - C	127	- 1537	E - H	176	- 2736
C - P	94	- 420			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.32	13.12	3.16
20.84	0.00	20.39	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

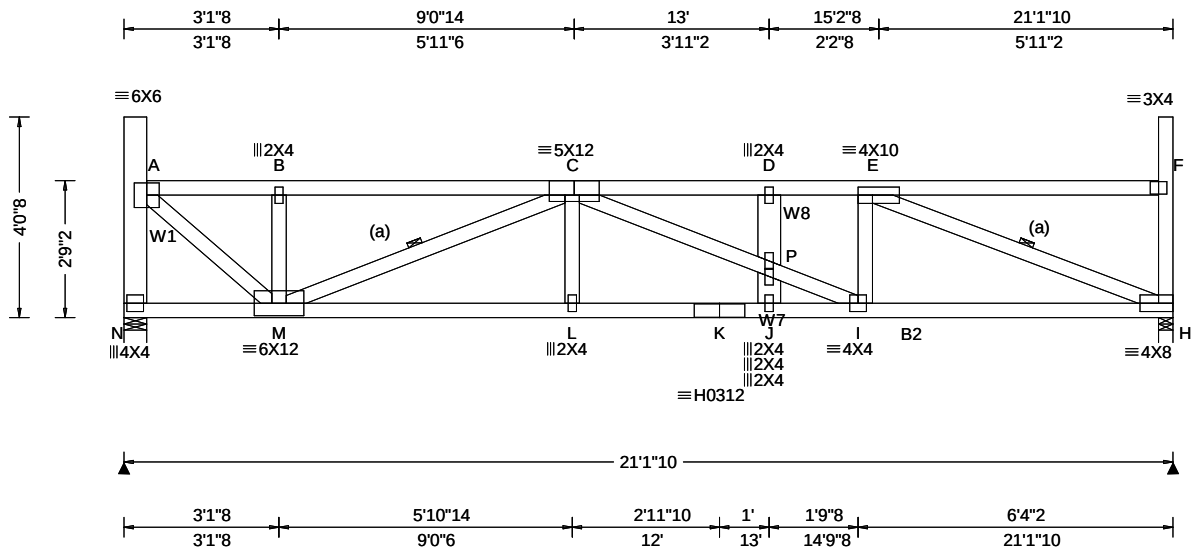
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37825 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T03A	Cust: R 9316 JRef:1XfQ93160003 T168 DrwNo: 142.22.1744.51863 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.142	D	999	360
VERT(CL): 0.265	D	957	240
HORZ(LL): 0.040	H	-	-
HORZ(TL): 0.075	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.440
Max BC CSI: 0.996
Max Web CSI: 0.600

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1342	/-	/-	/640	/78	/120
H	1353	/-	/-	/644	/80	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 2.1 (Truss)
H Brg Wid = 3.5 Min Req = 1.7 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	135	- 1601	C - D	146	- 2612
B - C	135	- 1598	D - E	146	- 2612

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2997	- 236	J - I	2997	- 236
L - K	2997	- 236	I - H	2541	- 163
K - J	2997	- 236			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	82	- 1290	P - I	93	- 431
A - M	1919	- 123	I - E	605	- 3
M - C	126	- 1516	E - H	174	- 2703
C - P	92	- 413			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.28	11.74	2.83
20.84	0.00	20.39	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

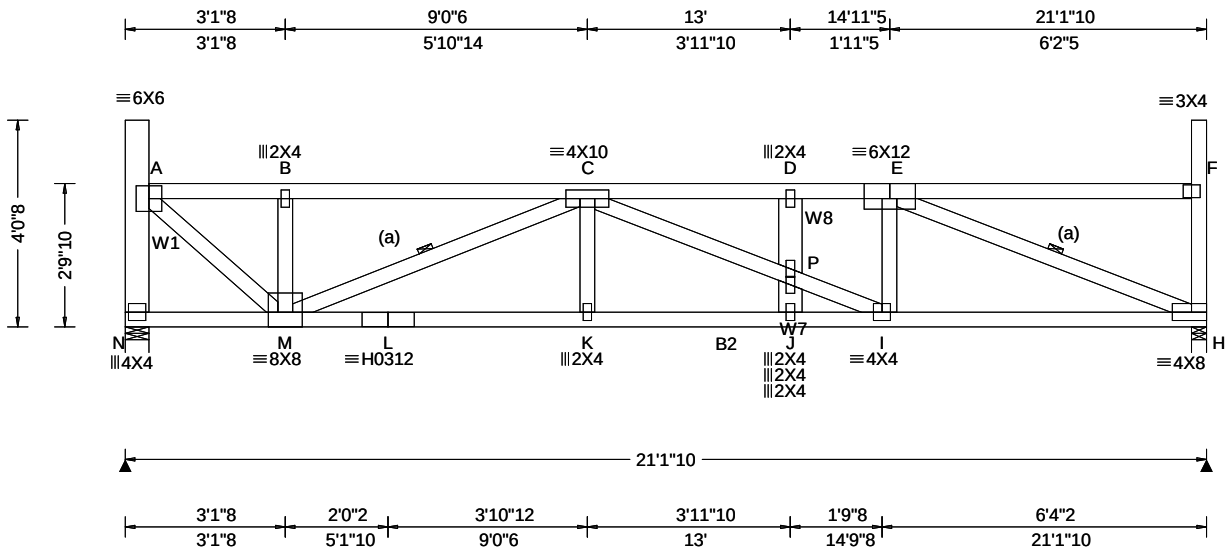
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37826 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T04A	Cust: R 9316 JRef:1XfQ93160003 T134 DrwNo: 142.22.1744.55193 / FK 05/22/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.132	D	999	360
VERT(CL): 0.236	D	999	240
HORZ(LL): 0.036	H	-	-
HORZ(TL): 0.067	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.440
Max BC CSI: 0.919
Max Web CSI: 0.592

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1342	/-	/-	/639	/78	/119
H	1353	/-	/-	/644	/80	/-

Wind reactions based on MWFRS
N Brg Wid = 5.5 Min Req = 2.1 (Truss)
H Brg Wid = 3.5 Min Req = 1.7 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	133	- 1571	C - D	168	- 2565
B - C	132	- 1567	D - E	168	- 2565

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	2953	- 233	J - I	2953	- 233
L - K	2953	- 233	I - H	2494	- 161
K - J	2953	- 233			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	83	- 1287	P - I	92	- 685
A - M	1894	- 121	I - E	611	- 3
M - C	124	- 1506	E - H	171	- 2659
C - P	91	- 659			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.24	10.35	2.50
20.84	0.00	20.39	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

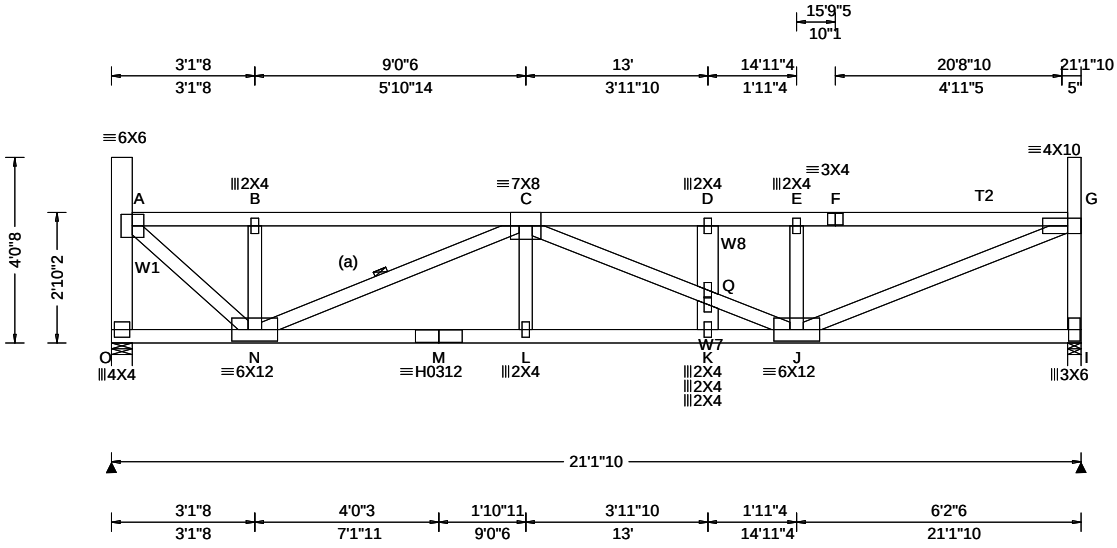
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37932 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T05A	Cust: R 9316 JRef:1XfQ93160003 T167 DrwNo: 142.22.1744.59533 / FK 05/22/2022	



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.153	D	999	360
VERT(CL): 0.283	D	895	240
HORZ(LL): 0.034	A	-	-
HORZ(TL): 0.063	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.626
Max BC CSI: 0.730
Max Web CSI: 0.771

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	1435	/-	/-	/-	/121	/-
I	1602	/-	/-	/-	/245	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 1.8 (Truss)
I Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	144	-1659	D - E	444	-3020
B - C	144	-1656	E - F	444	-3017
C - D	444	-3020	F - G	444	-3025

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	3240	-340	L - K	3240	-340
M - L	3240	-340	K - J	3240	-340

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	119	-1381	Q - J	0	-448
A - N	2014	-175	J - G	3143	-461
N - C	214	-1726	G - I	193	-1404
C - Q	0	-432			

Lumber

Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 20.84
BC: From 60 plf at 0.00 to 60 plf at 13.29
BC: From 30 plf at 13.29 to 30 plf at 21.14
BC: 144 lb Conc. Load at 13.29,15.07,17.07,19.07

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.20	8.97	2.16
20.84	0.00	20.39	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

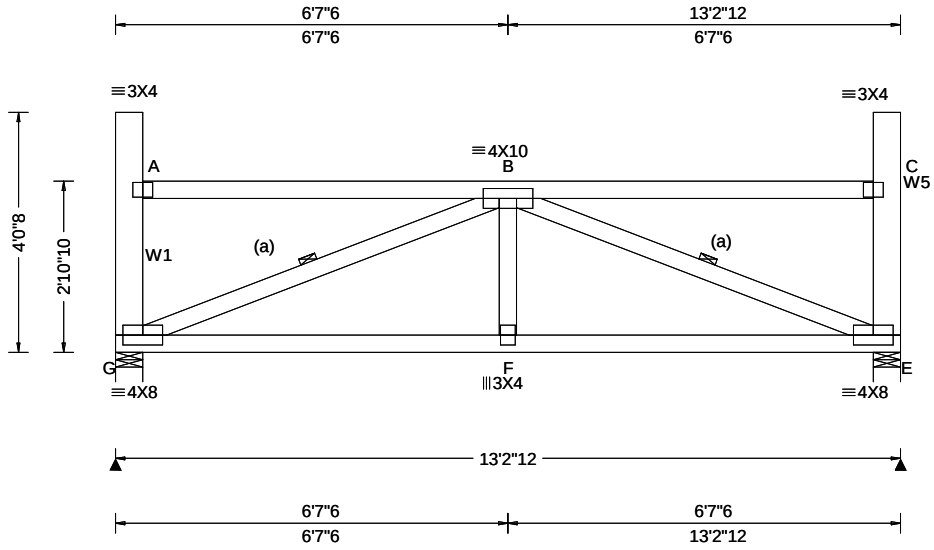
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37827 SPEC FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T06A	Cust: R 9316 JRef:1XfQ93160003 T149 DrwNo: 142.22.1745.01960 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.043 F	999	360
VERT(CL):	0.080 F	999	240
HORZ(LL):	0.015 E	-	-
HORZ(TL):	0.028 E	-	-

Creep Factor: 2.0
Max TC CSI: 0.546
Max BC CSI: 0.744
Max Web CSI: 0.315

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	828	/-	/-	/408	/59	/116
E	828	/-	/-	/408	/59	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1311	- 166	F - E	1311	- 166

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	179	- 1334	B - E	176	- 1334
B - F	440	0			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.59	1.83
12.77	0.00	20.00	1.16	7.59	1.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

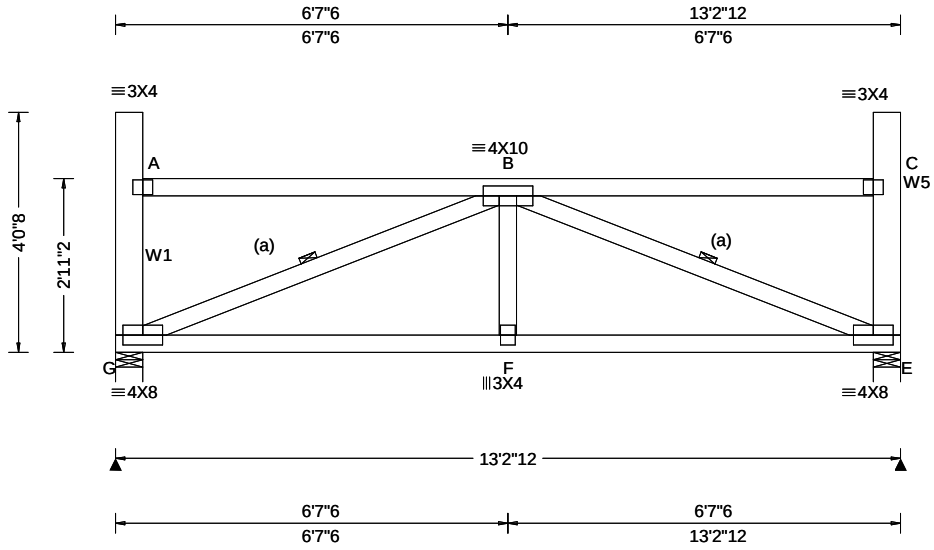
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37828 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T07A	Cust: R 9316 JRef:1XfQ93160003 T146 DrwNo: 142.22.1745.04300 / FK 05/22/2022	



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.042	F	999	360
VERT(CL): 0.078	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.028	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.547
Max BC CSI: 0.741
Max Web CSI: 0.312

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	828	/-	/-	/407	/59	/115
E	828	/-	/-	/407	/59	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1291	- 164	F - E	1291	- 164

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	175	- 1316	B - E	173	- 1316
B - F	440	0			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.11	6.20	1.50
12.77	0.00	20.00	1.11	6.20	1.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

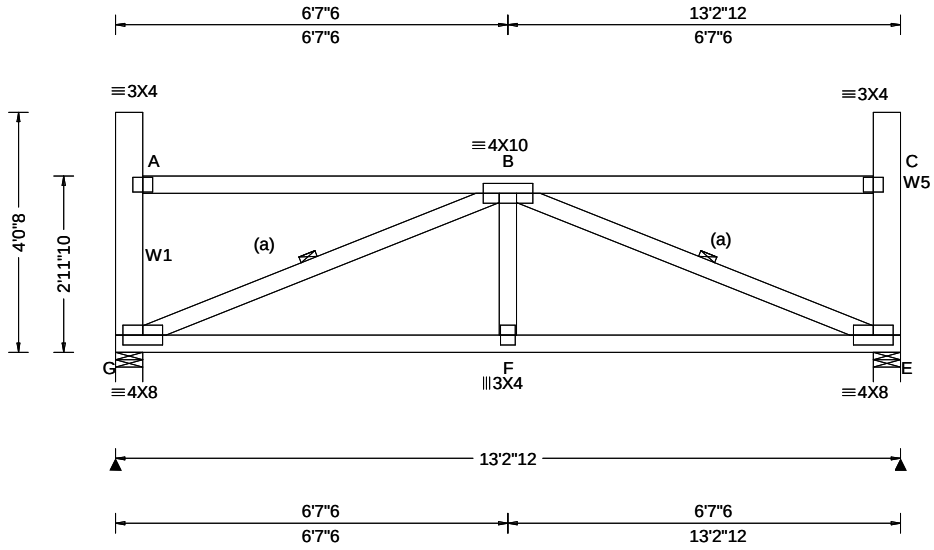
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37830 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T08A	Cust: R 9316 JRef:1XfQ93160003 T150 DrwNo: 142.22.1745.06667 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.041	F	999	360
VERT(CL): 0.076	F	999	240
HORZ(LL): 0.015	E	-	-
HORZ(TL): 0.027	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.548
Max BC CSI: 0.738
Max Web CSI: 0.309

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	828	/-	/-	/407	/59	/114
E	828	/-	/-	/407	/59	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
G - F	1271	- 162	F - E	1271	- 162

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - B	171	- 1299	B - E	169	- 1299
B - F	441	0			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

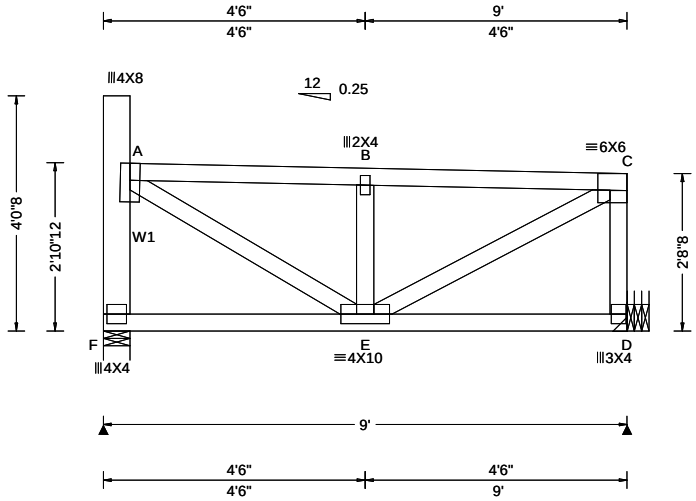
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37943 MONO FROM:	Ply: 2 Qty: 3	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T10	Cust: R 9316 JRef:1XfQ93160003 T7 DrwNo: 142.22.1745.09163 / FK 05/22/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.018 B	999	360
VERT(CL):	0.034 B	999	240
HORZ(LL):	0.005 A	-	-
HORZ(TL):	0.009 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.116
Max BC CSI: 0.851
Max Web CSI: 0.283

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	1822	/-	/-	/-	/185	/-
D	1769	/-	/-	/-	/152	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = - Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	99	- 1040	B - C	99	- 1040

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
F - A	54	- 579	E - C	1152	- 111
A - E	1076	- 101	C - D	58	- 611

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 3.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	35 plf at	0.46 to	35 plf at	9.00	
BC: From	60 plf at	0.00 to	60 plf at	2.33	
BC: From	30 plf at	2.33 to	30 plf at	9.00	
BC: 1371 lb Conc. Load at 2.33					
BC: 527 lb Conc. Load at 4.33, 6.33, 8.33					

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.84

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

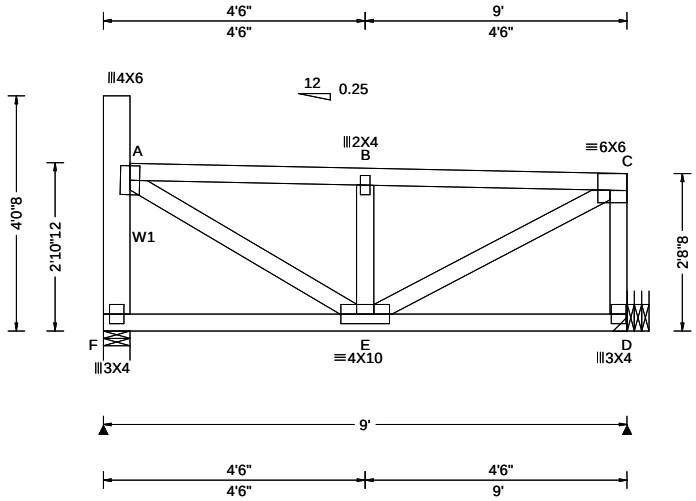
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37941 MONO FROM:	Ply: 2 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T10A	Cust: R 9316 JRef:1XfQ93160003 T8 DrwNo: 142.22.1745.38190 / FK 05/22/2022

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.015	B	999	360
VERT(CL): 0.028	B	999	240
HORZ(LL): 0.004	A	-	-
HORZ(TL): 0.007	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.116
Max BC CSI: 0.730
Max Web CSI: 0.231

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	1371	/-	/-	/-	/180	/-
D	1611	/-	/-	/-	/150	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = - Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	97	-857	B - C	97	-858

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
F - A	52	-487	E - C	940	-108
A - E	900	-97	C - D	56	-506

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 3.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 35 plf at 0.46 to 35 plf at 9.00
BC: From 60 plf at 0.00 to 60 plf at 2.33
BC: From 30 plf at 2.33 to 30 plf at 9.00
BC: 762 lb Conc. Load at 2.33
BC: 527 lb Conc. Load at 4.33, 6.33, 8.33

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.84

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

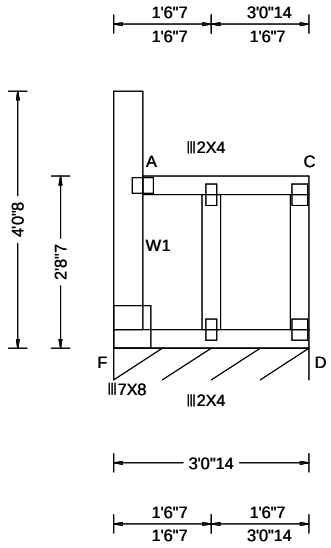
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37831 GABL FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T11	Cust: R 9316 JRef:1XfQ93160003 T108 DrwNo: 142.22.1745.40563 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.007 A	999	360
VERT(CL):	0.009 A	999	240
HORZ(LL):	0.116 A	-	-
HORZ(TL):	0.135 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.116
Max BC CSI: 0.324
Max Web CSI: 0.141

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	120	/-	/-	/56	/4	/30

Wind reactions based on MWFRS
D Brg Wid = 36.9 Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.34	13.63	2.61

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

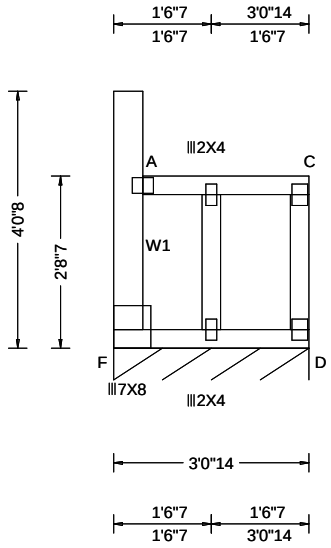
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37832 GABL FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T11A	Cust: R 9316 JRef:1XfQ93160003 T3 DrwNo: 142.22.1745.43183 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.007 A	999	360
VERT(CL):	0.009 A	999	240
HORZ(LL):	0.116 A	-	-
HORZ(TL):	0.135 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.116
Max BC CSI: 0.324
Max Web CSI: 0.141

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	120	/-	/-	/56	/4	/30

Wind reactions based on MWFRS
D Brg Wid = 36.9 Min Req = -
Bearing F is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.34	13.63	2.61

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

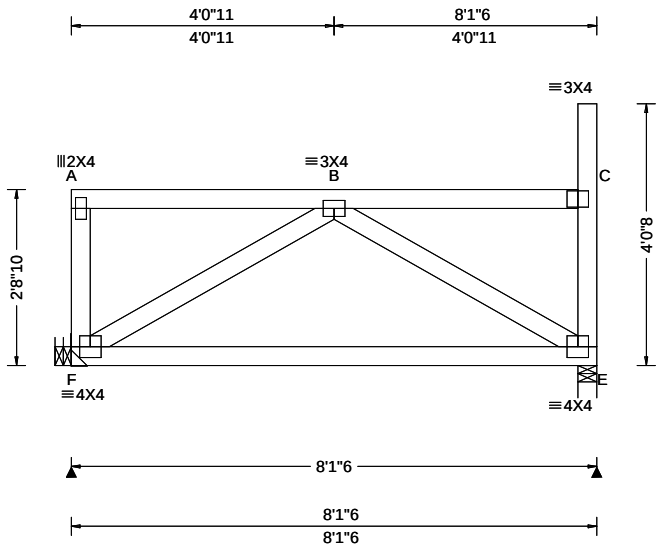
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37833 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T12	Cust: R 9316 JRef:1XfQ93160003 T210 DrwNo: 142.22.1745.45580 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.217
Max BC CSI: 0.611
Max Web CSI: 0.204

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/43	/92
E	507	/-	/-	/255	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

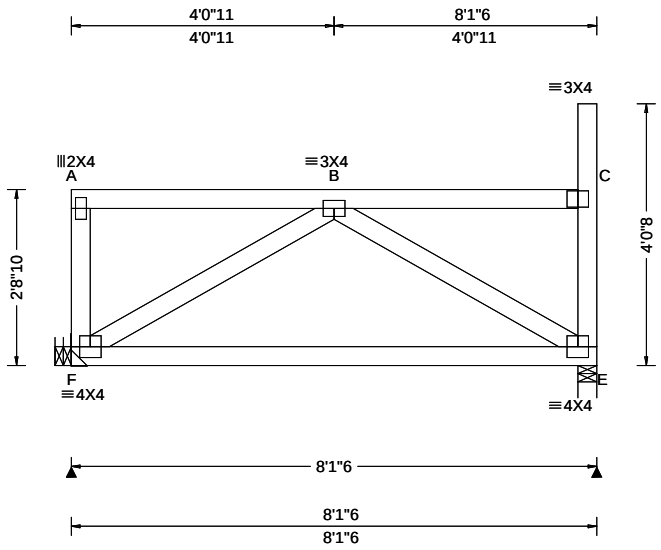
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37834 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T12A	Cust: R 9316 JRef:1XfQ93160003 T5 DrwNo: 142.22.1745.47920 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.217
Max BC CSI: 0.611
Max Web CSI: 0.204

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/43	/92
E	507	/-	/-	/255	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

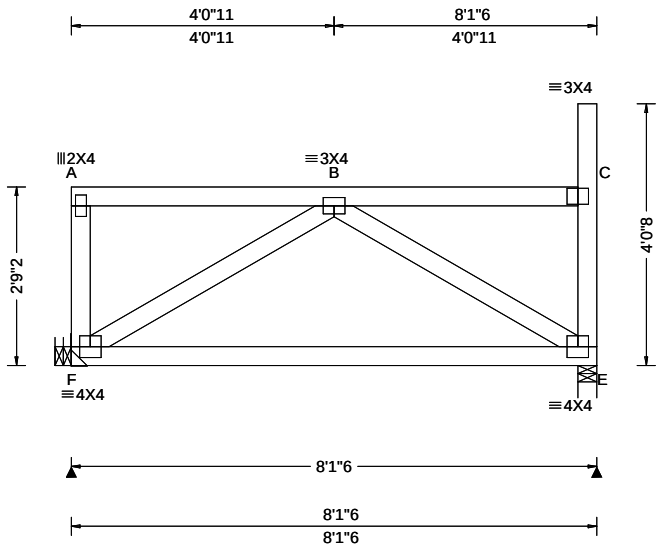
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37835 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T13	Cust: R 9316 JRef:1XfQ93160003 T126 DrwNo: 142.22.1745.50243 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.008	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.217
Max BC CSI: 0.611
Max Web CSI: 0.204

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/44	/91
E	507	/-	/-	/255	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

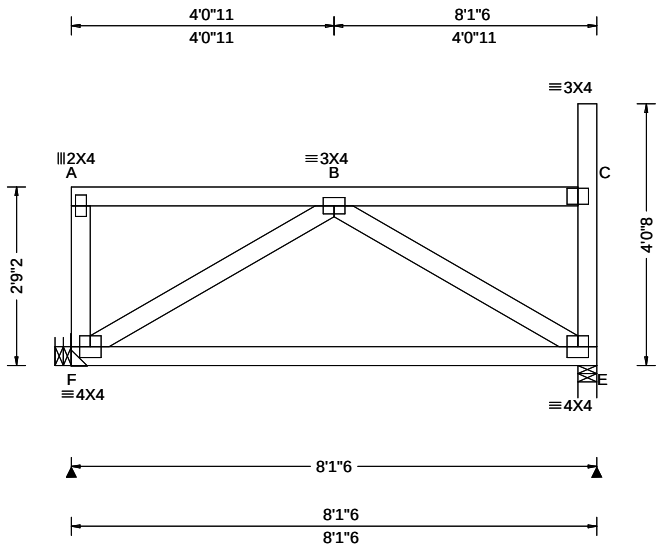
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37836 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T13A	Cust: R 9316 JRef:1XfQ93160003 T2 DrwNo: 142.22.1745.52550 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.004 B 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 B 999 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.003 E - -
NCBCLL: 0.00	Mean Height: 21.76 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.217
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.611
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.204
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/44	/91
E	507	/-	/-	/255	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

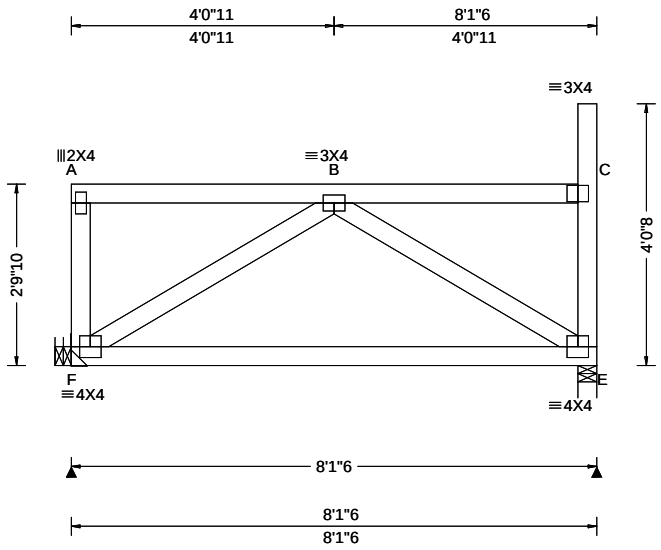
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37837 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T14	Cust: R 9316 JRef:1XfQ93160003 T130 DrwNo: 142.22.1745.54800 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.007	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.218
Max BC CSI: 0.610
Max Web CSI: 0.203

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/44	/91
E	507	/-	/-	/255	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

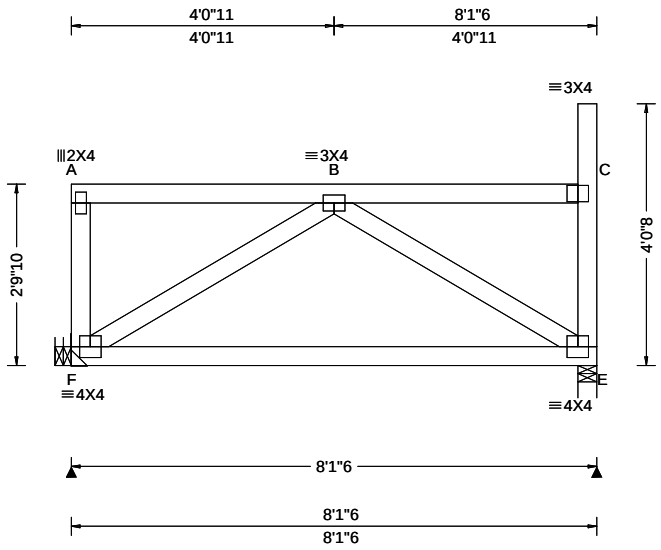
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37838 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T14A	Cust: R 9316 JRef:1XfQ93160003 T4 DrwNo: 142.22.1745.57430 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	B	999	360
VERT(CL): 0.007	B	999	240
HORZ(LL): 0.002	E	-	-
HORZ(TL): 0.003	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.218
Max BC CSI: 0.610
Max Web CSI: 0.203

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	527	/-	/-	/270	/44	/91
E	507	/-	/-	/255	/45	/-

Wind reactions based on MWFRS
F Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

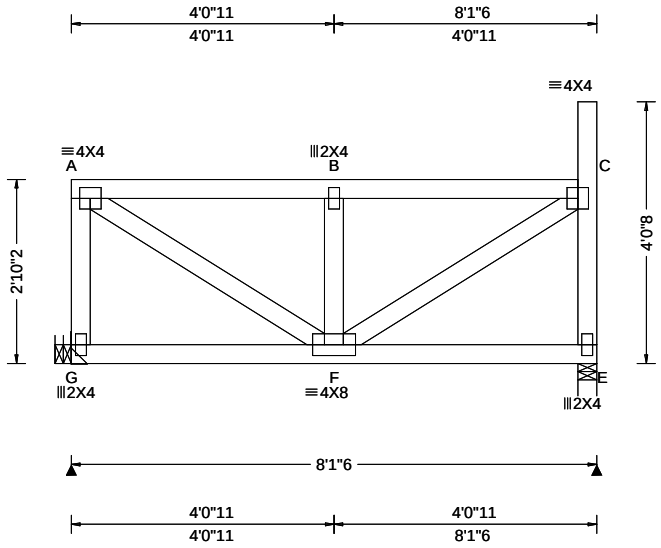
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37935 FLAT FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T15	Cust: R 9316 JRef:1XfQ93160003 T124 DrwNo: 142.22.1746.05160 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.012	B	999	360
VERT(CL): 0.021	B	999	240
HORZ(LL): -0.002	C	-	-
HORZ(TL): 0.004	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.239
Max BC CSI: 0.340
Max Web CSI: 0.190

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	762	/-	/-	/-	/168	/-
E	607	/-	/-	/-	/111	/-

Wind reactions based on MWFRS
G Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	135	- 667	B - C	135	- 671

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	91	- 528	F - C	745	- 151
A - F	773	- 156	C - E	91	- 510

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads
------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 7.82
BC: From 30 plf at 0.00 to 30 plf at 8.11
BC: 144 lb Conc. Load at 0.27, 2.05, 4.05, 6.05

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

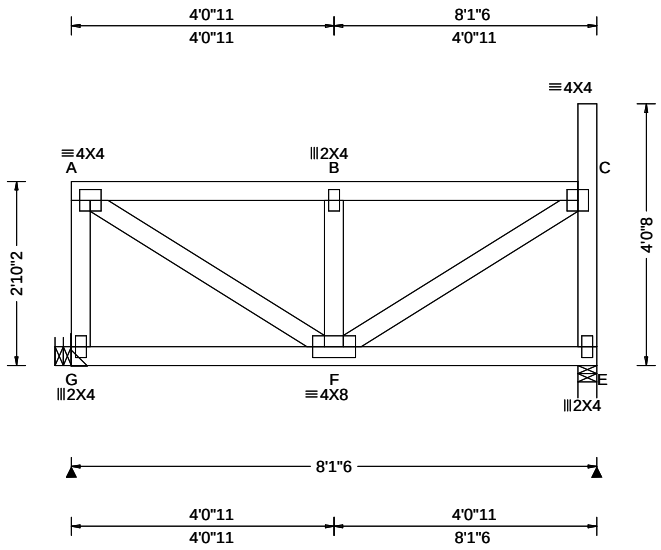
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37936 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T15A	Cust: R 9316 JRef:1XfQ93160003 T12 DrwNo: 142.22.1746.07693 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.012	B	999	360
VERT(CL): 0.021	B	999	240
HORZ(LL): -0.002	C	-	-
HORZ(TL): 0.004	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.239
Max BC CSI: 0.340
Max Web CSI: 0.190

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	762	/-	/-	/-	/172	/-
E	607	/-	/-	/-	/114	/-

Wind reactions based on MWFRS
G Brg Wid = - Min Req = -
E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	138	- 667	B - C	138	- 671

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	94	- 528	F - C	745	- 155
A - F	773	- 160	C - E	93	- 510

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 7.82
BC: From 30 plf at 0.00 to 30 plf at 8.11
BC: 144 lb Conc. Load at 0.27, 2.05, 4.05, 6.05

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

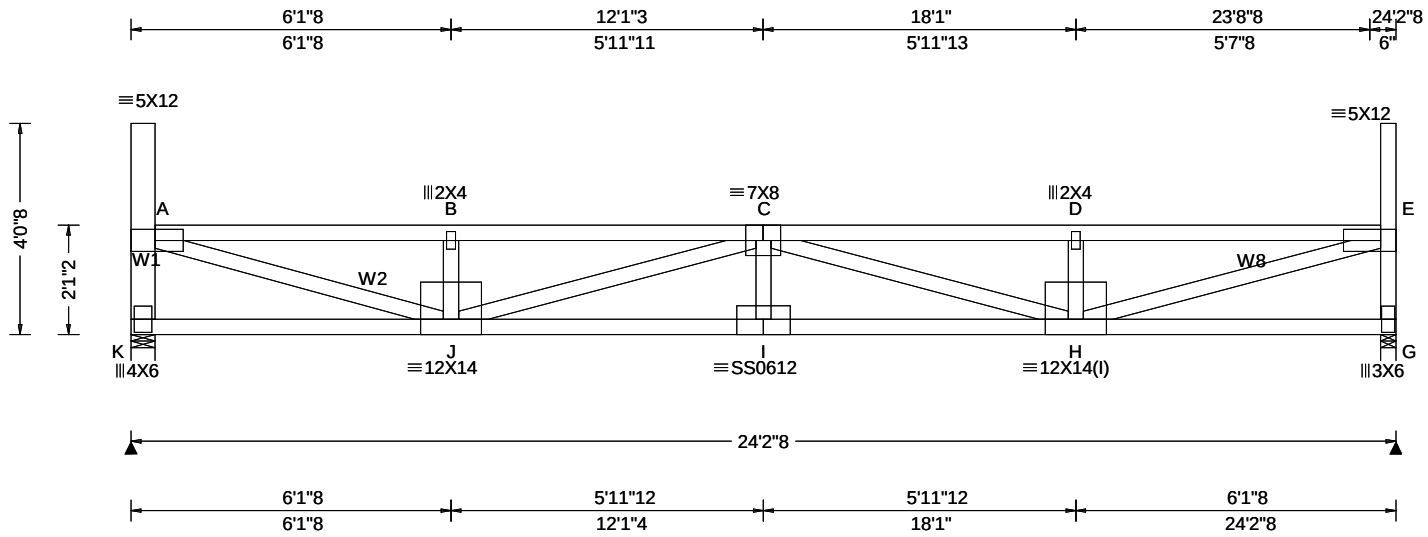
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37839 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T17	Cust: R 9316 JRef:1XfQ93160003 T127 DrwNo: 142.22.1746.10180 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.389 I	746	360
VERT(CL):	0.723 I	401	240
HORZ(LL):	0.061 A	-	-
HORZ(TL):	0.113 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.954
Max BC CSI: 0.730
Max Web CSI: 0.868

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/731	/78	/129
G	1553	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	237	-4188	C - D	229	-4194
B - C	237	-4183	D - E	230	-4199

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5416	-303	I - H	5416	-303

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	91	-1371	C - H	137	-1277
A - J	4154	-247	H - E	4238	-246
J - C	141	-1288	E - G	93	-1391

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E; W2, W8 2x4 SPF 2100f-1.8E;

Plating Notes

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.95	33.87	4.20
23.92	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.39" DL: 0.33". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

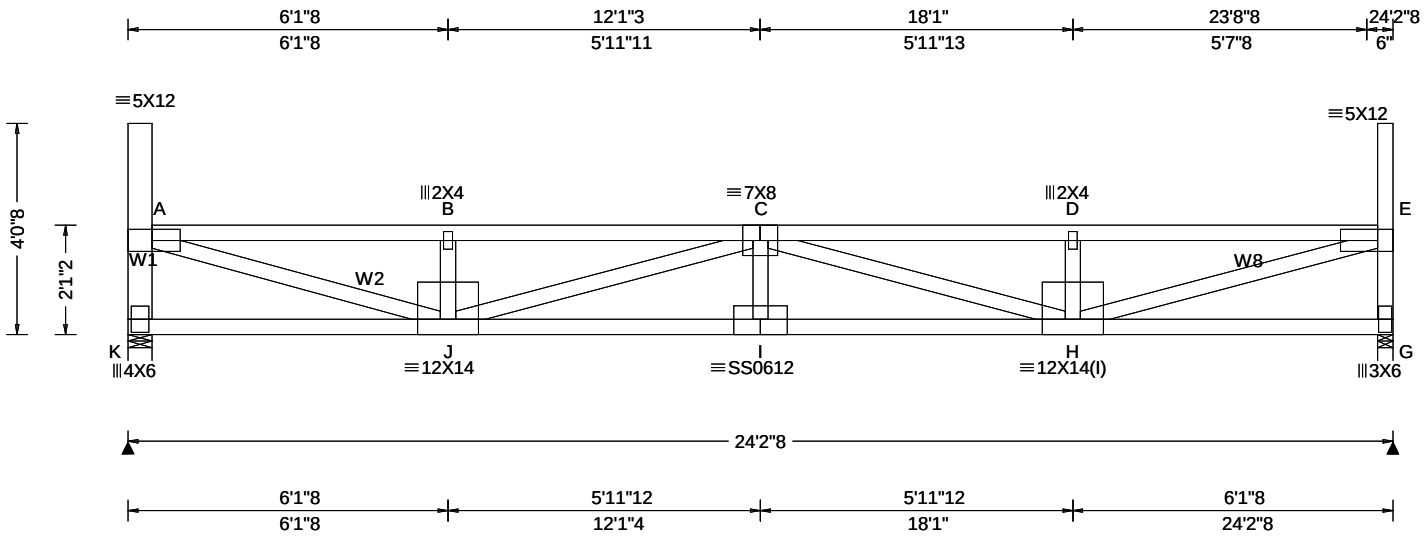
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37840 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T17A	Cust: R 9316 JRef:1XfQ93160003 T17 DrwNo: 142.22.1746.12860 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.389 I	746	360
VERT(CL):	0.723 I	401	240
HORZ(LL):	0.061 A	-	-
HORZ(TL):	0.113 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.954
Max BC CSI: 0.730
Max Web CSI: 0.868

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/731	/78	/129
G	1553	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	237	- 4188	C - D	229	- 4194
B - C	237	- 4183	D - E	230	- 4199

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5416	- 303	I - H	5416	- 303

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	91	- 1371	C - H	137	- 1277
A - J	4154	- 247	H - E	4238	- 246
J - C	141	- 1288	E - G	93	- 1391

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E; W2, W8 2x4 SPF 2100f-1.8E;

Plating Notes

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.95	33.87	4.20
23.92	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.39" DL: 0.33". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

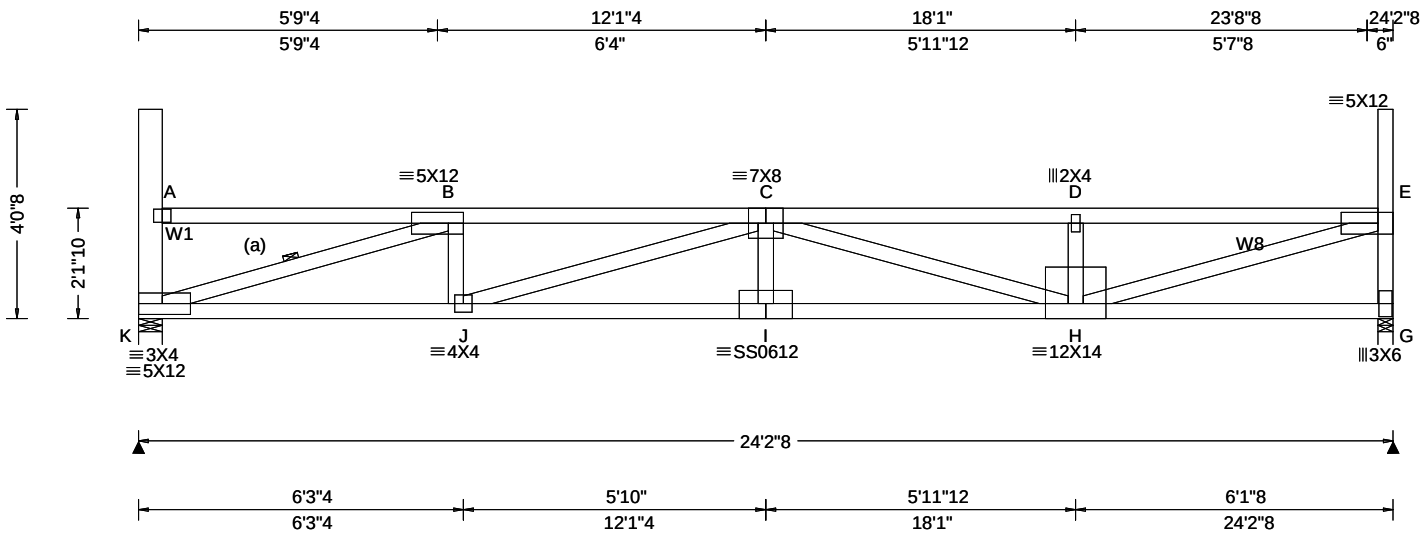
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37950 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T18	Cust: R 9316 JRef:1XfQ93160003 T125 DrwNo: 142.22.1746.15680 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.372	I	780	360
VERT(CL): 0.692	I	419	240
HORZ(LL): 0.061	A	-	-
HORZ(TL): 0.114	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.939
Max BC CSI: 0.711
Max Web CSI: 0.846

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1542	/-	/-	/731	/78	/127
G	1553	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	229	- 4117	D - E	225	- 4107
C - D	224	- 4102			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3998	- 359	I - H	5298	- 300
J - I	5298	- 300			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	233	- 4080	C - H	135	- 1252
B - J	758	- 2	H - E	4152	- 240
J - C	139	- 1239	E - G	93	- 1392

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;
W8 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.91	32.49	4.38
23.92	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.37" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

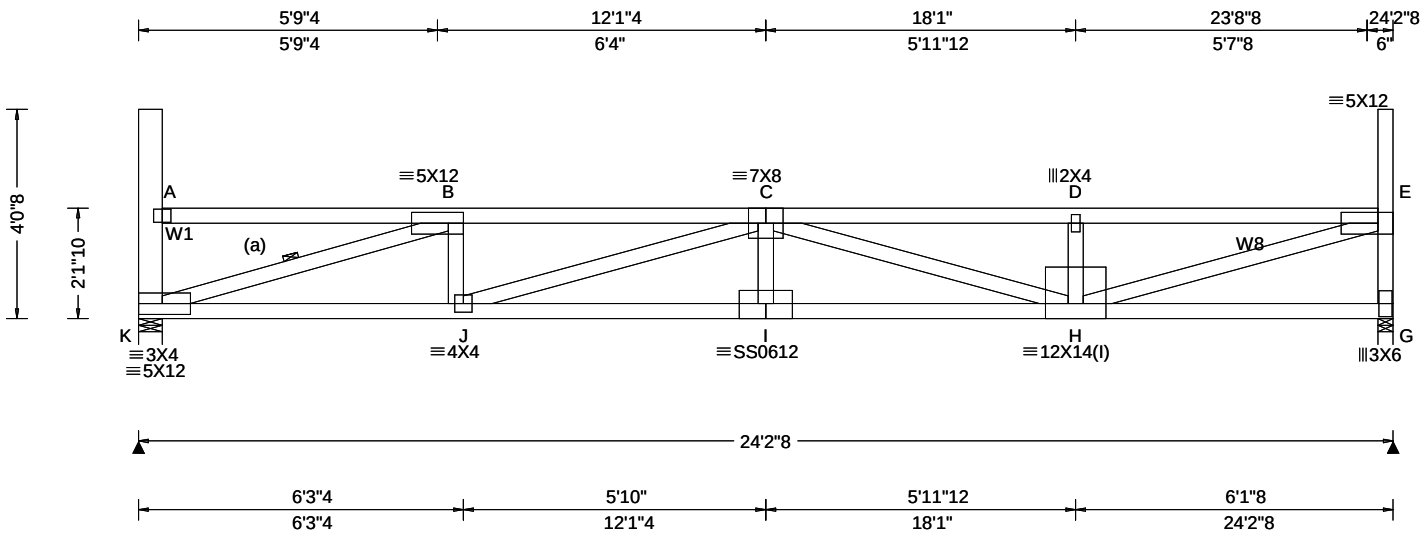
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37956 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T18A	Cust: R 9316 JRef:1XfQ93160003 T28 DrwNo: 142.22.1746.18560 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.393 I	738	360
VERT(CL):	0.713 I	407	240
HORZ(LL):	0.065 A	-	-
HORZ(TL):	0.118 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.954
Max BC CSI: 0.727
Max Web CSI: 0.873

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1588	/-	/-	/731	/78	/127
G	1600	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	229	- 4242	D - E	225	- 4234
C - D	224	- 4228			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4122	- 359	I - H	5461	- 300
J - I	5461	- 300			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	233	- 4207	D - H	75	- 381
B - J	769	- 2	H - E	4279	- 240
J - C	139	- 1278	E - G	93	- 1439
C - H	135	- 1291			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;
W8 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.91	32.49	4.38
23.92	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.39" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

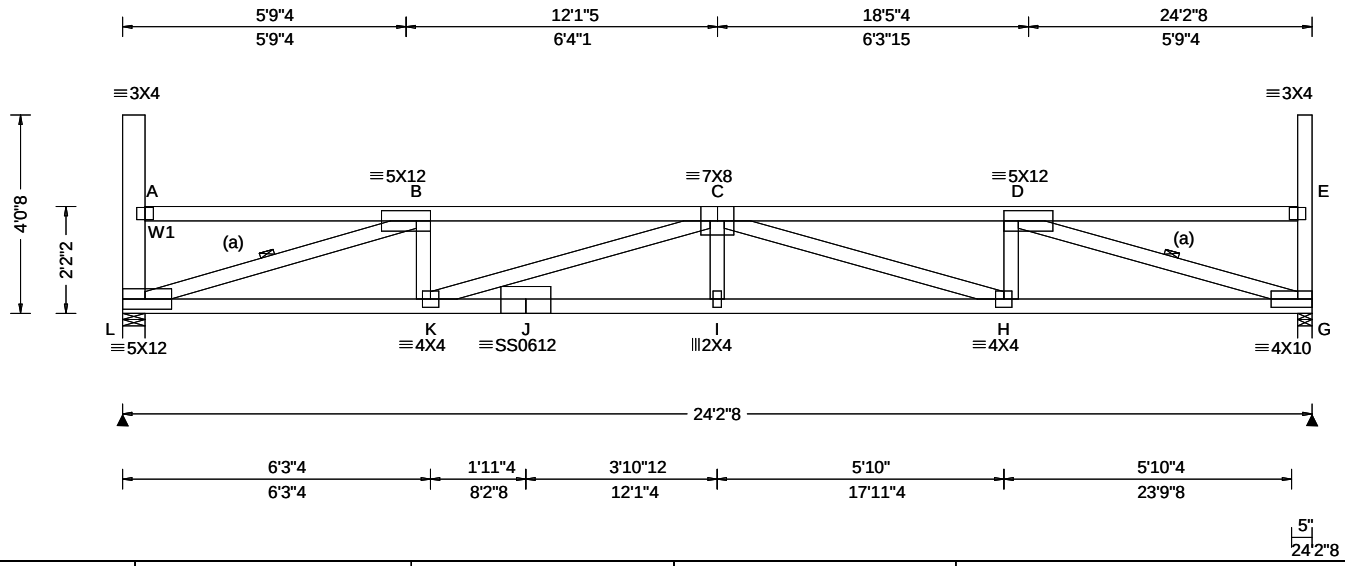
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37843 FLAT	Ply: 1	**Job Number:** JB-220700	Cust: R 9316 JRef:1XfQ93160003 T115
FROM:	Qty: 1	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1746.21343
		Truss Label: T19	/ FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.356	I	817	360
VERT(CL): 0.661	I	439	240
HORZ(LL): 0.075	G	-	-
HORZ(TL): 0.139	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.703
Max BC CSI: 0.691
Max Web CSI: 0.853

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/78	/126
G	1553	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	225	- 4029	C - D	216	- 4040

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3913	- 353	I - H	5185	- 296
K - J	5185	- 296	H - G	3922	- 197
J - I	5185	- 296			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	228	- 4002	C - H	135	- 1204
B - K	760	- 2	H - D	774	- 1
K - C	136	- 1216	D - G	226	- 4056

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

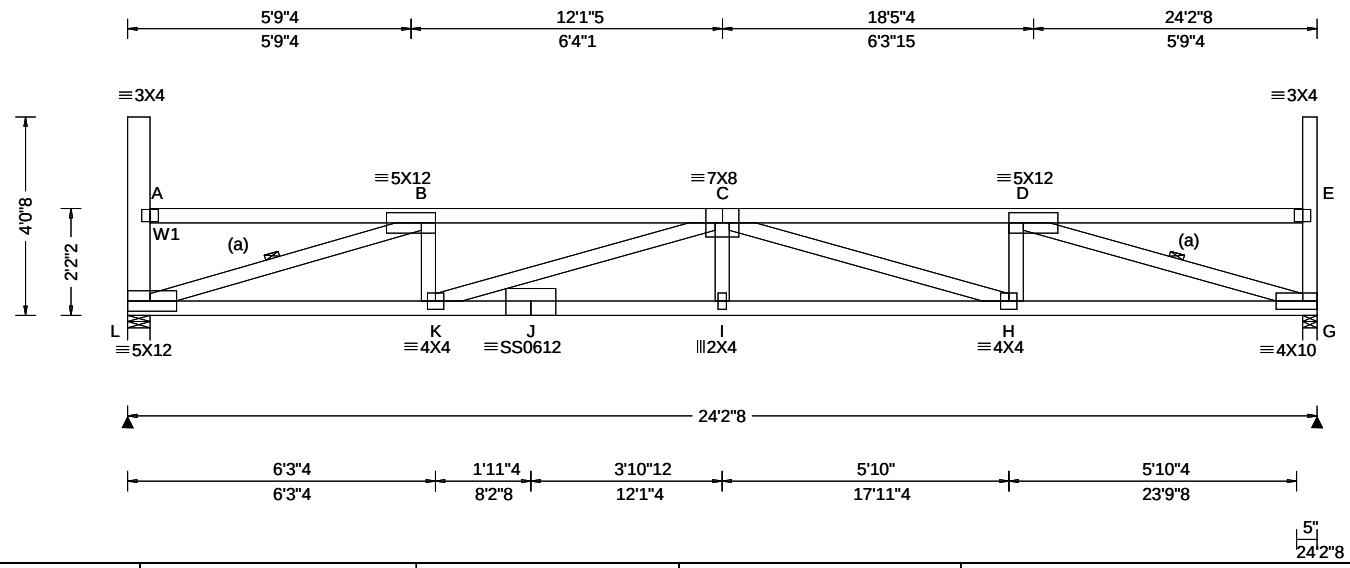
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37844 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T19A	Cust: R 9316 JRef:1XfQ93160003 T22 DrwNo: 142.22.1746.23877 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.356	I	817	360
VERT(CL): 0.661	I	439	240
HORZ(LL): 0.075	G	-	-
HORZ(TL): 0.139	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.703
Max BC CSI: 0.691
Max Web CSI: 0.853

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/78	/126
G	1553	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	225	- 4029	C - D	216	- 4040

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3913	- 353	I - H	5185	- 296
K - J	5185	- 296	H - G	3922	- 197
J - I	5185	- 296			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	228	- 4002	C - H	135	- 1204
B - K	760	- 2	H - D	774	- 1
K - C	136	- 1216	D - G	226	- 4056

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

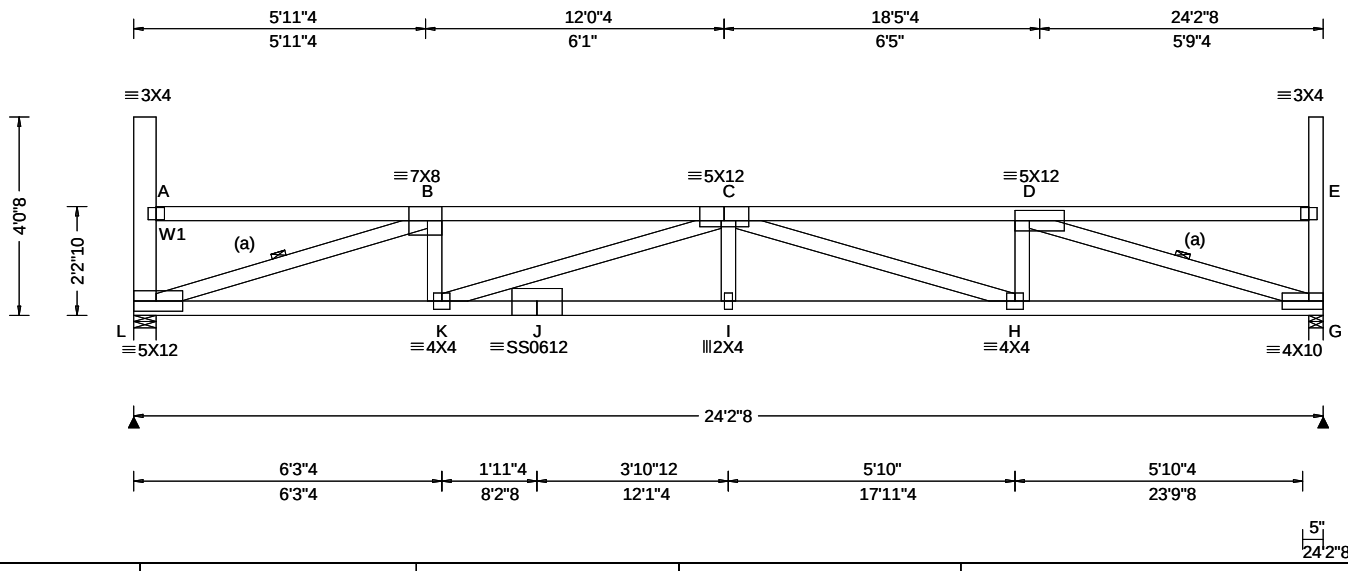
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37845 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T20	Cust: R 9316 JRef:1XfQ93160003 T116 DrwNo: 142.22.1746.26870 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.341	I	851	360
VERT(CL): 0.634	I	457	240
HORZ(LL): 0.073	G	-	-
HORZ(TL): 0.137	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.680
Max BC CSI: 0.681
Max Web CSI: 0.839

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/78	/124
G	1553	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	221	- 3945	C - D	212	- 3955

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3831	- 347	I - H	5076	- 292
K - J	5076	- 292	H - G	3840	- 194
J - I	5076	- 292			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	224	- 3927	C - H	132	- 1180
B - K	760	- 1	H - D	774	- 1
K - C	133	- 1191	D - G	222	- 3980

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.82	29.72	4.79
23.92	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

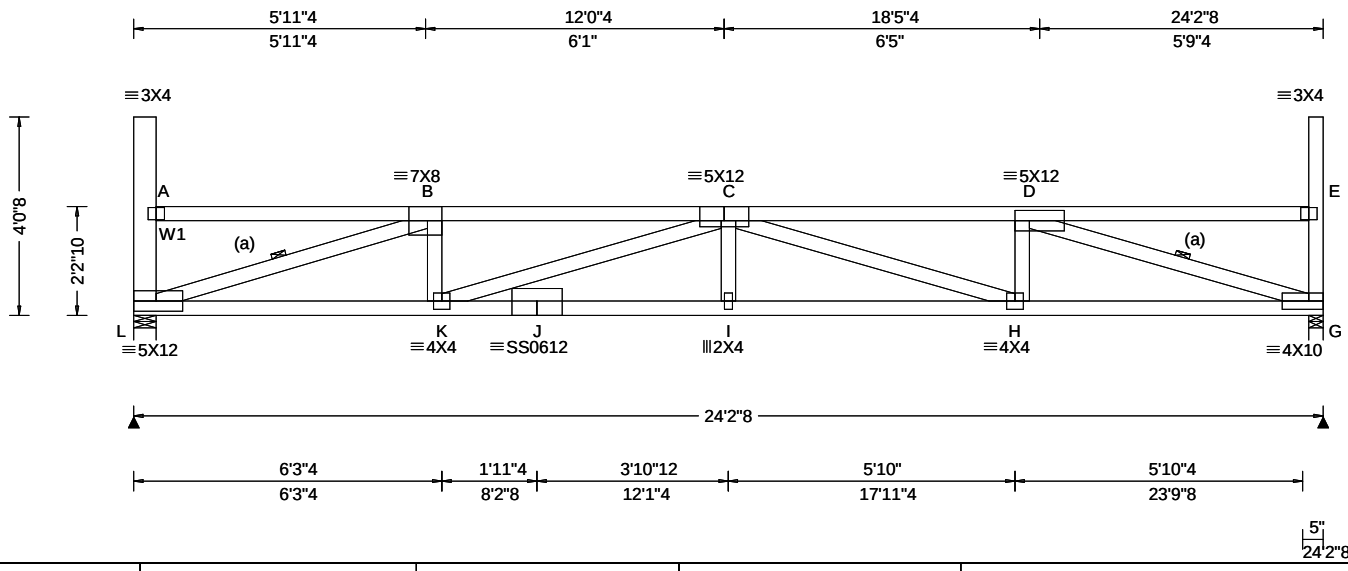
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37846 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T20A	Cust: R 9316 JRef:1XfQ93160003 T16 DrwNo: 142.22.1746.29637 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.341 I	851	360
VERT(CL):	0.634 I	457	240
HORZ(LL):	0.073 G	-	-
HORZ(TL):	0.137 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.680
Max BC CSI: 0.681
Max Web CSI: 0.839

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/78	/124
G	1553	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	221	- 3945	C - D	212	- 3955

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3831	- 347	I - H	5076	- 292
K - J	5076	- 292	H - G	3840	- 194
J - I	5076	- 292			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	224	- 3927	C - H	132	- 1180
B - K	760	- 1	H - D	774	- 1
K - C	133	- 1191	D - G	222	- 3980

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.82	29.72	4.79
23.92	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

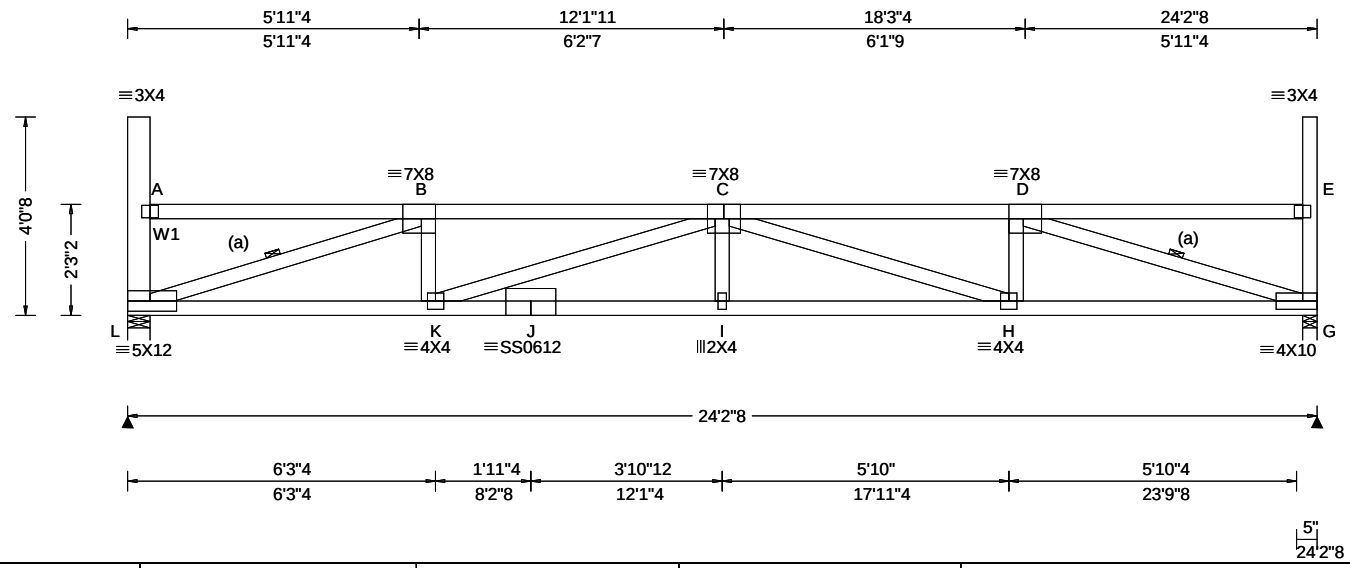
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37847 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T21	Cust: R 9316 JRef:1XfQ93160003 T117 DrwNo: 142.22.1746.32250 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.327 I	887	360
VERT(CL):	0.608 I	477	240
HORZ(LL):	0.072 G	-	-
HORZ(TL):	0.134 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.656
Max BC CSI: 0.671
Max Web CSI: 0.824

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1540	/-	/-	/730	/78	/123
G	1552	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	199	- 3860	C - D	187	- 3870

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3748	- 340	I - H	4963	- 286
K - J	4963	- 286	H - G	3757	- 182
J - I	4963	- 286			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	219	- 3851	C - H	128	- 1153
B - K	759	- 1	H - D	773	0
K - C	129	- 1164	D - G	217	- 3902

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

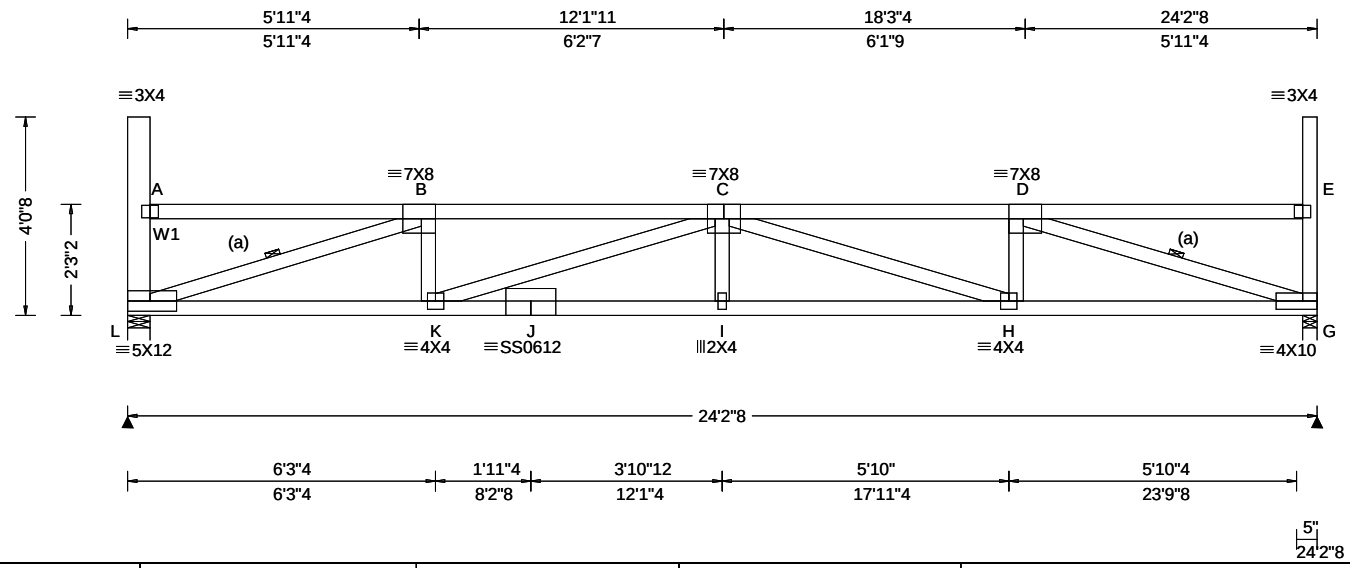
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37848 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T21A	Cust: R 9316 JRef:1XfQ93160003 T27 DrwNo: 142.22.1746.34777 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.327 I	887	360
VERT(CL):	0.608 I	477	240
HORZ(LL):	0.072 G	-	-
HORZ(TL):	0.134 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.656
Max BC CSI: 0.671
Max Web CSI: 0.824

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1540	/-	/-	/730	/78	/123
G	1552	/-	/-	/737	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	199	- 3860	C - D	187	- 3870

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3748	- 340	I - H	4963	- 286
K - J	4963	- 286	H - G	3757	- 182
J - I	4963	- 286			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	219	- 3851	C - H	128	- 1153
B - K	759	- 1	H - D	773	0
K - C	129	- 1164	D - G	217	- 3902

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

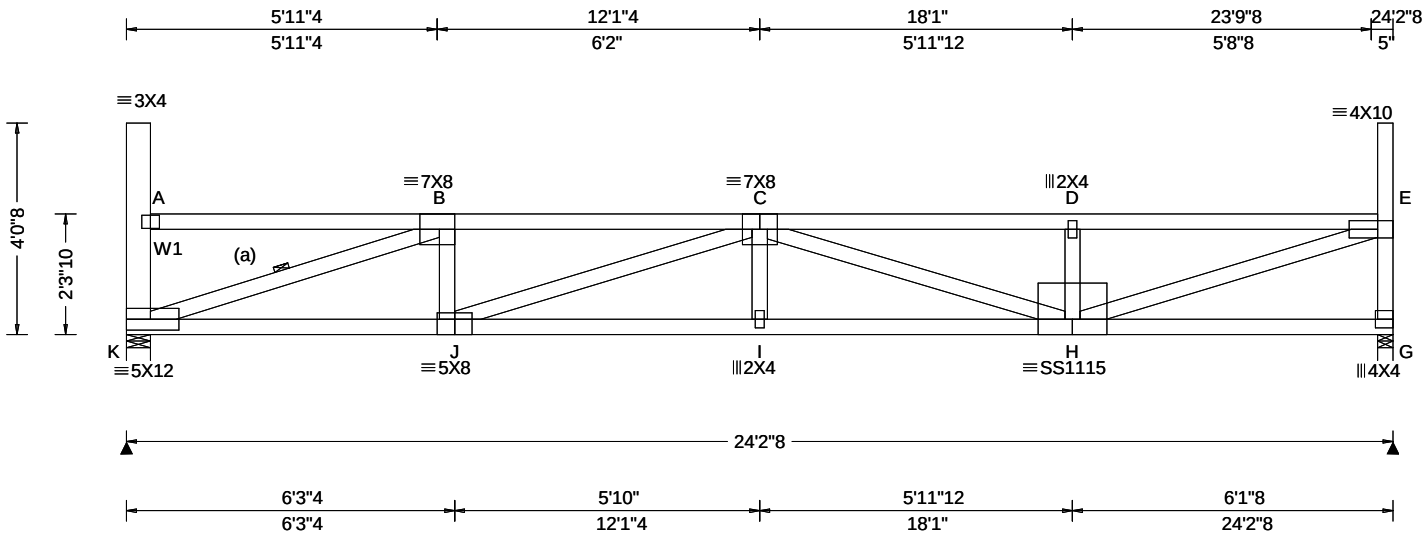
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37963 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T22	Cust: R 9316 JRef:1XfQ93160003 T118 DrwNo: 142.22.1746.37470 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.326 I 890 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.592 I 490 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.057 A - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.104 A - -
NCBCLL: 0.00	Mean Height: 21.30 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.876
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.565
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.967
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 14.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1587	/-	/-	/730	/78	/122
G	1599	/-	/-	/736	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 1.6 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	196	-3891	D - E	187	-3875
C - D	186	-3869			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3781	-314	I - H	5015	-271
J - I	5015	-271			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	216	-3895	D - H	76	-388
B - J	768	0	H - E	3941	-215
J - C	116	-1189	E - G	94	-1436
C - H	113	-1209			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 DF-L 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.74	26.95	5.28
23.92	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

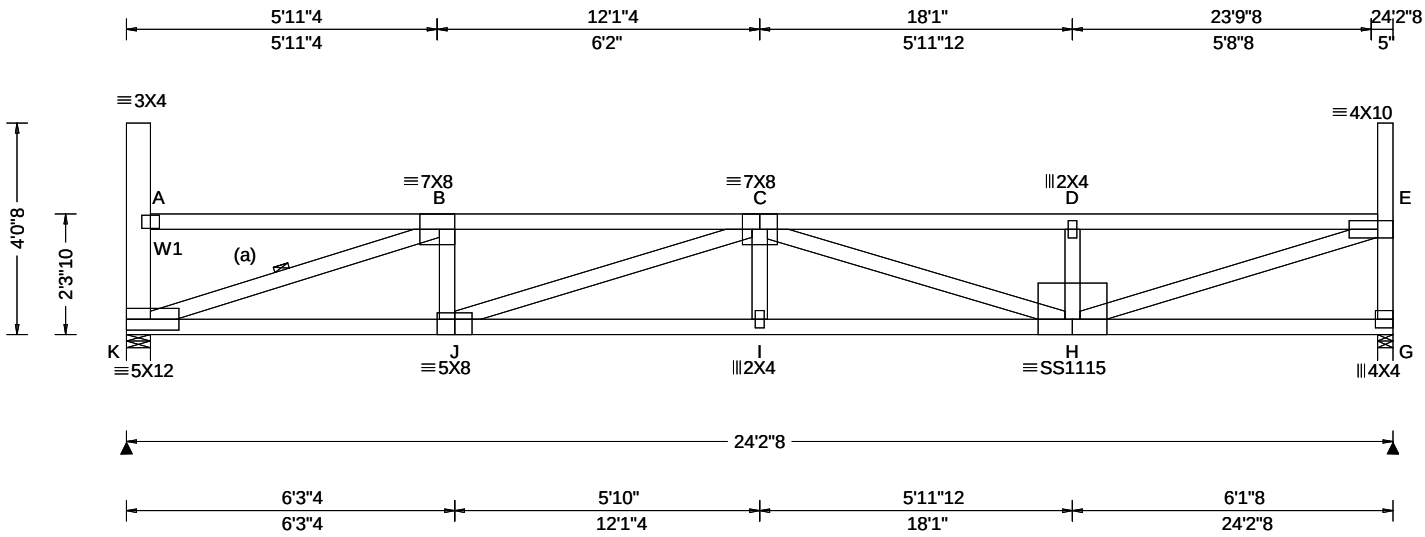
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37970 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T22A	Cust: R 9316 JRef:1XfQ93160003 T21 DrwNo: 142.22.1746.40240 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.326 I 890 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.592 I 490 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.057 A - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.104 A - -
NCBCLL: 0.00	Mean Height: 21.30 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.876
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.565
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.967
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 14.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1587	/-	/-	/730	/78	/122
G	1599	/-	/-	/736	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 5.5 Min Req = 1.6 (Truss)
G Brg Wid = 3.5 Min Req = 1.6 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	196	-3891	D - E	187	-3875
C - D	186	-3869			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3781	-314	I - H	5015	-271
J - I	5015	-271			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	216	-3895	D - H	76	-388
B - J	768	0	H - E	3941	-215
J - C	116	-1189	E - G	94	-1436
C - H	113	-1209			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 DF-L 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.74	26.95	5.28
23.92	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

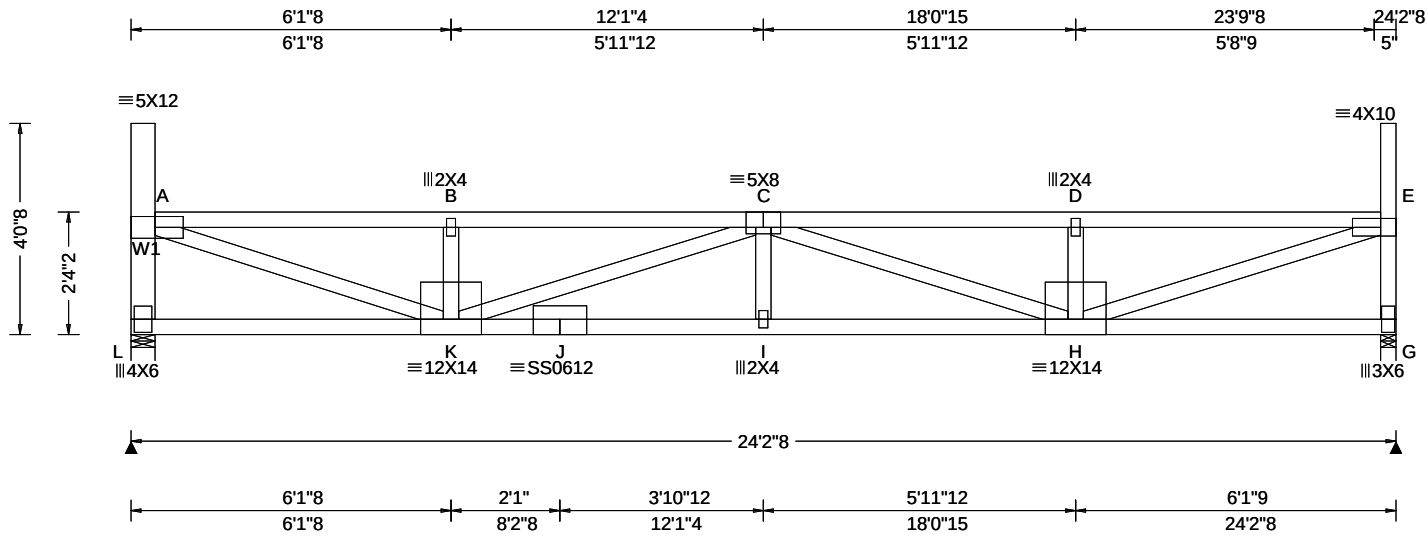
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37851 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T23	Cust: R 9316 JRef:1XfQ93160003 T119 DrwNo: 142.22.1746.42947 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.318 I	914	360
VERT(CL):	0.591 I	491	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.100 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.862
Max BC CSI: 0.651
Max Web CSI: 0.924

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/730	/78	/120
G	1553	/-	/-	/736	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	198	- 3686	C - D	184	- 3691
B - C	198	- 3681	D - E	185	- 3696

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4772	- 268	I - H	4772	- 268
J - I	4772	- 268			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	92	- 1372	C - H	111	- 1143
A - K	3690	- 213	H - E	3767	- 212
K - C	114	- 1153	E - G	94	- 1392

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.70	25.57	5.57
23.92	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

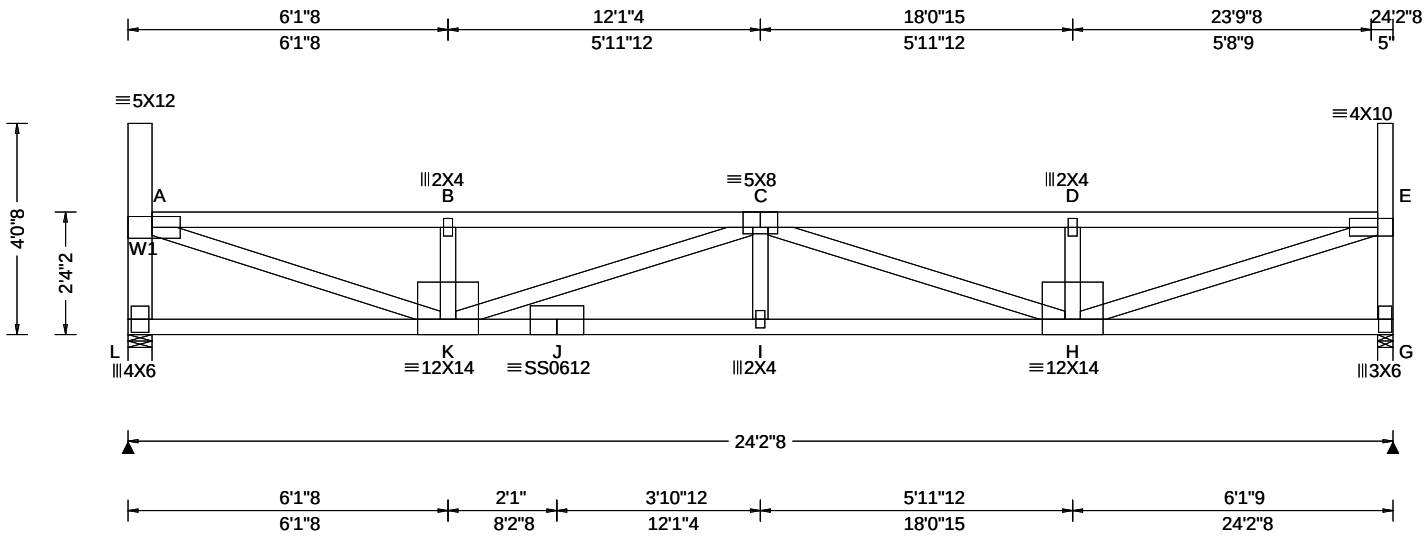
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37852 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T23A	Cust: R 9316 JRef:1XfQ93160003 T15 DrwNo: 142.22.1746.45490 / FK 05/22/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.318 I 914 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.591 I 491 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.054 A - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.100 A - -
NCBCLL: 0.00	Mean Height: 21.34 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.862
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.651
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.924
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 14.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/730	/78	/120
G	1553	/-	/-	/736	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	198	- 3686	C - D	184	- 3691
B - C	198	- 3681	D - E	185	- 3696

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4772	- 268	I - H	4772	- 268
J - I	4772	- 268			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	92	- 1372	C - H	111	- 1143
A - K	3690	- 213	H - E	3767	- 212
K - C	114	- 1153	E - G	94	- 1392

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.70	25.57	5.57
23.92	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

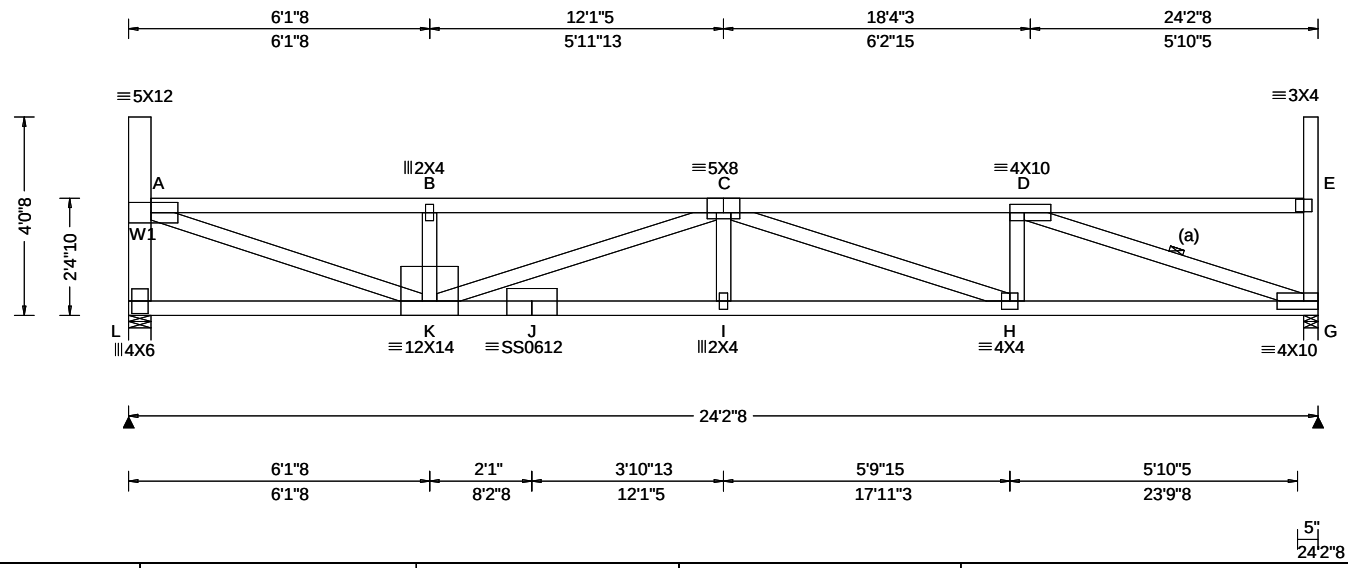
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37853 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T24	Cust: R 9316 JRef:1XfQ93160003 T120 DrwNo: 142.22.1746.48120 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.298 I	973	360
VERT(CL):	0.555 I	523	240
HORZ(LL):	0.054 G	-	-
HORZ(TL):	0.100 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.822
Max BC CSI: 0.647
Max Web CSI: 0.890

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/730	/78	/119
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	195	- 3615	C - D	177	- 3649
B - C	194	- 3610			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4678	- 265	I - H	4678	- 265
J - I	4678	- 265	H - G	3542	- 176

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1373	C - H	111	- 1093
A - K	3626	- 209	H - D	772	0
K - C	112	- 1131	D - G	207	- 3704

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.26". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

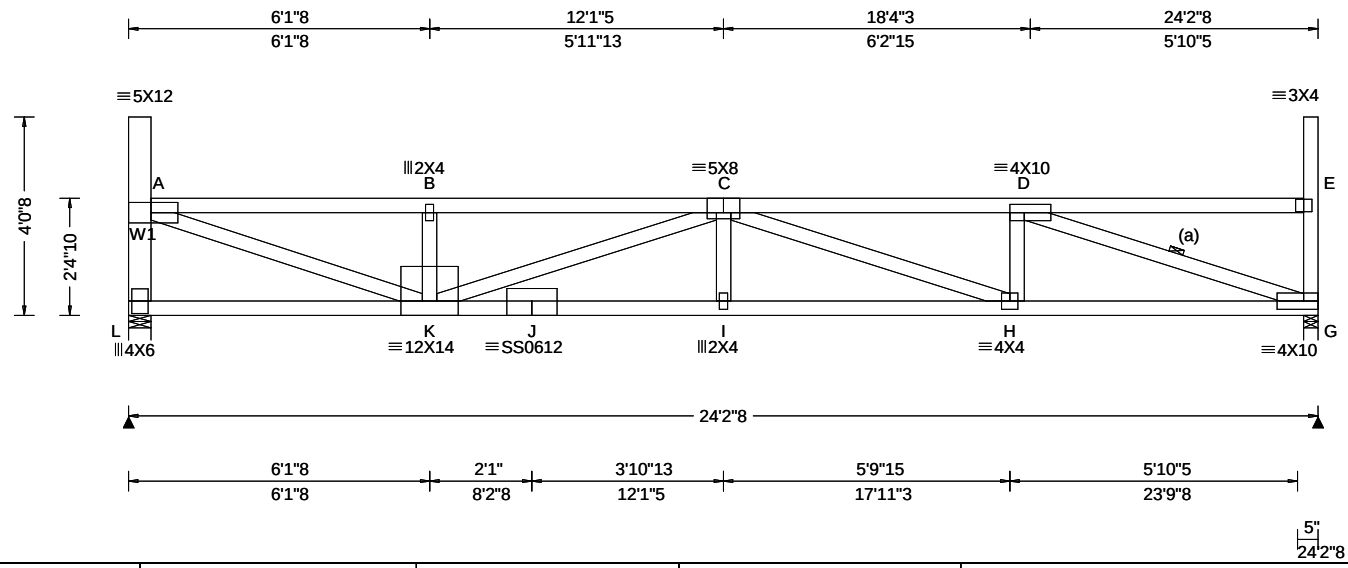
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37854 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T24A	Cust: R 9316 JRef:1XfQ93160003 T26 DrwNo: 142.22.1746.50930 / FK 05/22/2022	



Loading Criteria (psf)

TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria

Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.298	I	973	360
VERT(CL): 0.555	I	523	240
HORZ(LL): 0.054	G	-	-
HORZ(TL): 0.100	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.822
Max BC CSI: 0.647
Max Web CSI: 0.890

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/730	/78	/119
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	195	- 3615	C - D	177	- 3649
B - C	194	- 3610			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4678	- 265	I - H	4678	- 265
J - I	4678	- 265	H - G	3542	- 176

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1373	C - H	111	- 1093
A - K	3626	- 209	H - D	772	0
K - C	112	- 1131	D - G	207	- 3704

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.26". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

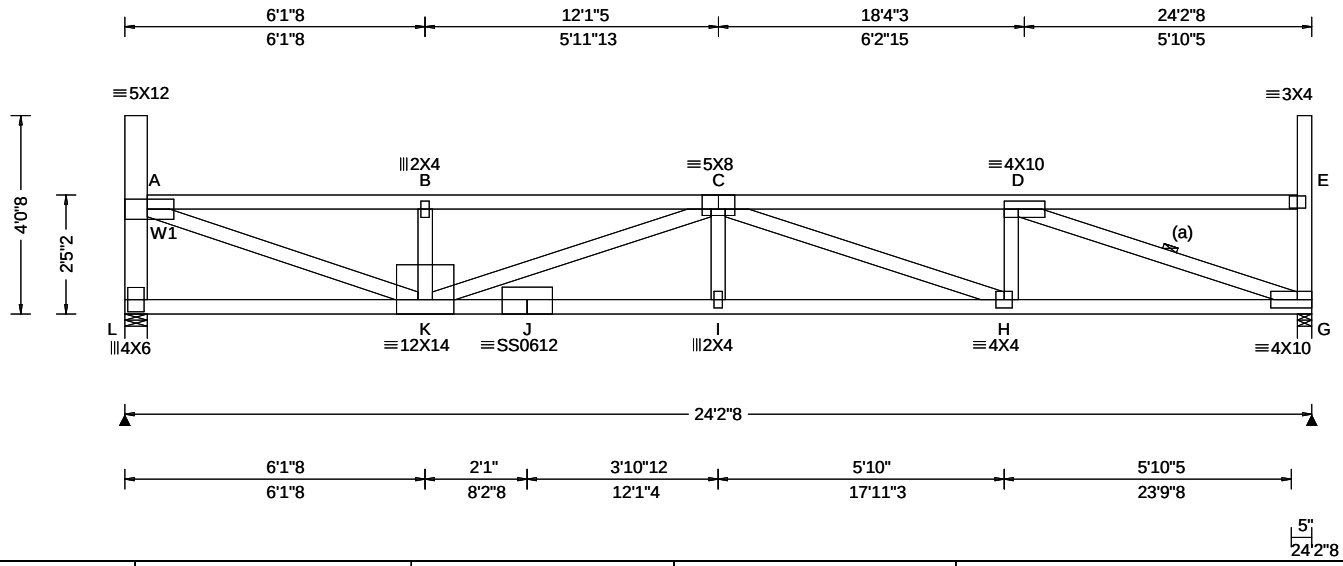
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37855 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T25	Cust: R 9316 JRef:1XfQ93160003 T121 DrwNo: 142.22.1746.53663 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.287 I	999	360
VERT(CL):	0.534 I	543	240
HORZ(LL):	0.053 G	-	-
HORZ(TL):	0.098 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.794
Max BC CSI: 0.641
Max Web CSI: 0.874

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/730	/78	/118
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	191	- 3546	C - D	174	- 3579
B - C	191	- 3541			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4586	- 262	I - H	4586	- 262
J - I	4586	- 262	H - G	3475	- 174

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1373	C - H	109	- 1073
A - K	3563	- 205	H - D	772	0
K - C	109	- 1110	D - G	204	- 3641

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.61	22.80	5.50
23.92	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

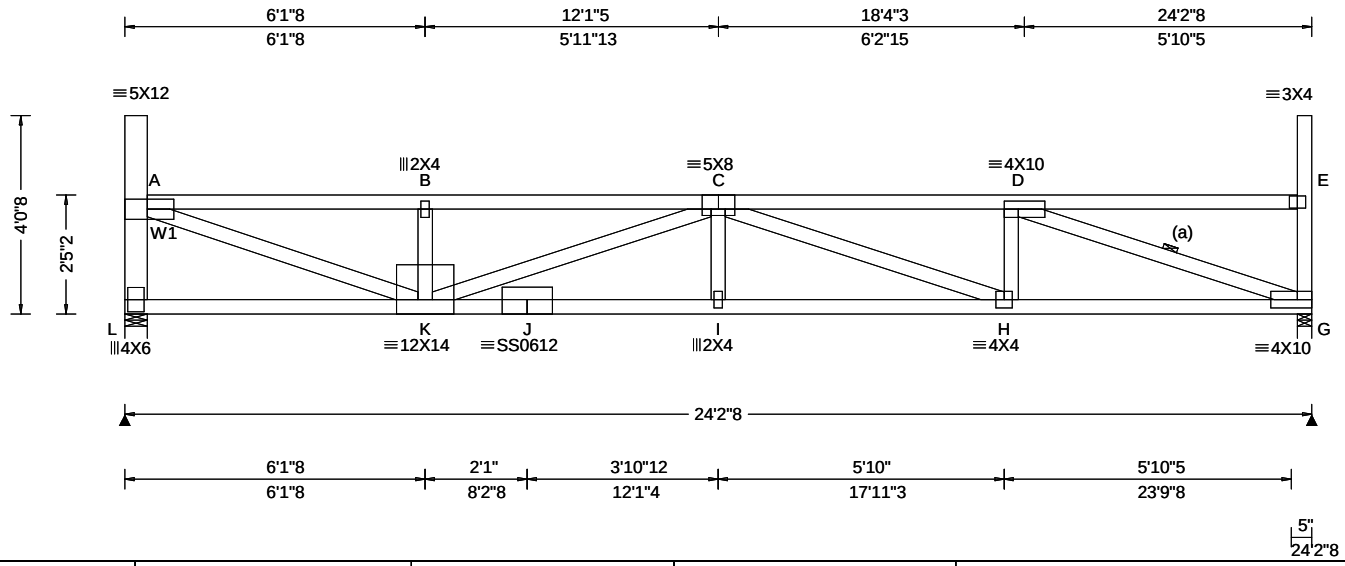
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37856 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T25A	Cust: R 9316 JRef:1XfQ93160003 T14 DrwNo: 142.22.1746.56357 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.287	I	999	360
VERT(CL): 0.534	I	543	240
HORZ(LL): 0.053	G	-	-
HORZ(TL): 0.098	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.794
Max BC CSI: 0.641
Max Web CSI: 0.874

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/730	/78	/118
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	191	- 3546	C - D	174	- 3579
B - C	191	- 3541			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4586	- 262	I - H	4586	- 262
J - I	4586	- 262	H - G	3475	- 174

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1373	C - H	109	- 1073
A - K	3563	- 205	H - D	772	0
K - C	109	- 1110	D - G	204	- 3641

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.61	22.80	5.50
23.92	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

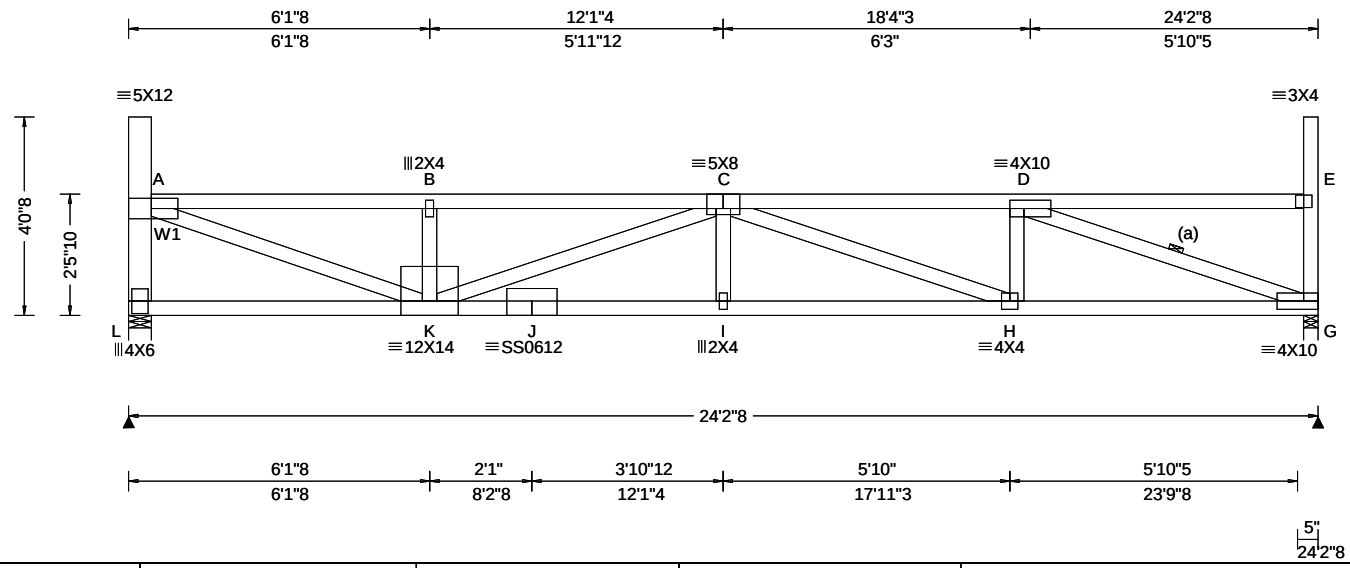
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37857 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T26	Cust: R 9316 JRef:1XfQ93160003 T106 DrwNo: 142.22.1746.59010 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.277 I	999	360
VERT(CL):	0.515 I	563	240
HORZ(LL):	0.052 G	-	-
HORZ(TL):	0.096 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.754
Max BC CSI: 0.635
Max Web CSI: 0.860

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/730	/78	/116
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	189	- 3480	C - D	171	- 3512
B - C	188	- 3475			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4501	- 259	I - H	4501	- 259
J - I	4501	- 259	H - G	3410	- 172

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1374	C - H	107	- 1055
A - K	3504	- 202	H - D	772	0
K - C	107	- 1091	D - G	201	- 3582

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

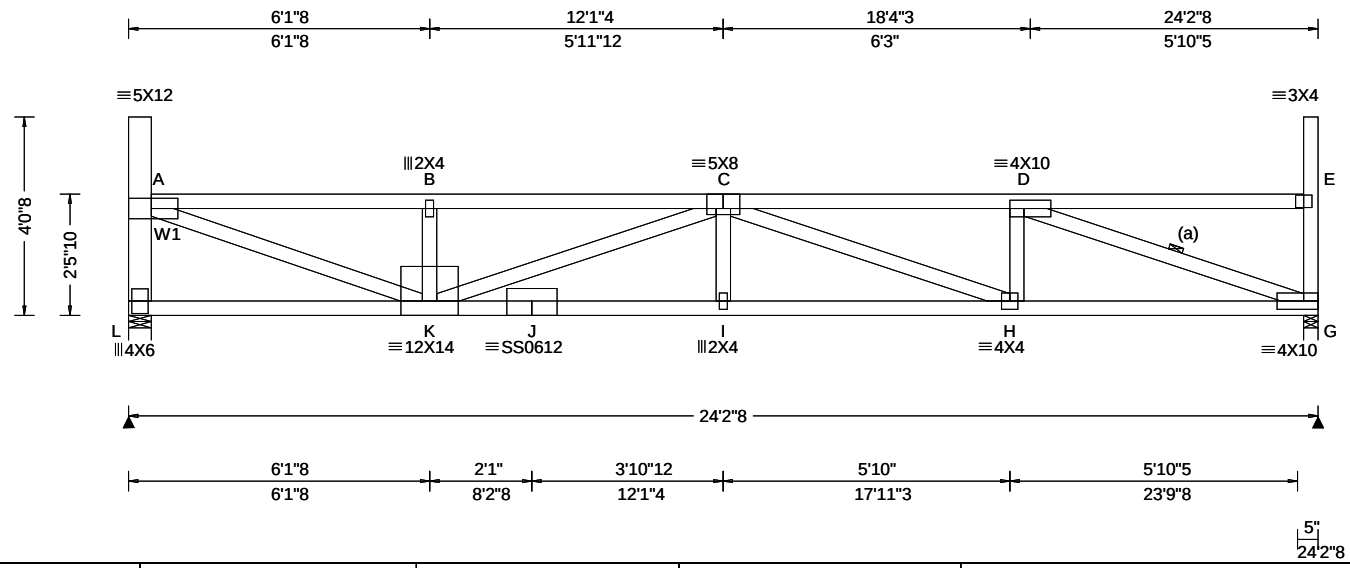
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37858 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T26A	Cust: R 9316 JRef:1XfQ93160003 T20 DrwNo: 142.22.1747.01643 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.277 I	999	360
VERT(CL):	0.515 I	563	240
HORZ(LL):	0.052 G	-	-
HORZ(TL):	0.096 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.754
Max BC CSI: 0.635
Max Web CSI: 0.860

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/730	/78	/116
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	189	- 3480	C - D	171	- 3512
B - C	188	- 3475			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4501	- 259	I - H	4501	- 259
J - I	4501	- 259	H - G	3410	- 172

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1374	C - H	107	- 1055
A - K	3504	- 202	H - D	772	0
K - C	107	- 1091	D - G	201	- 3582

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

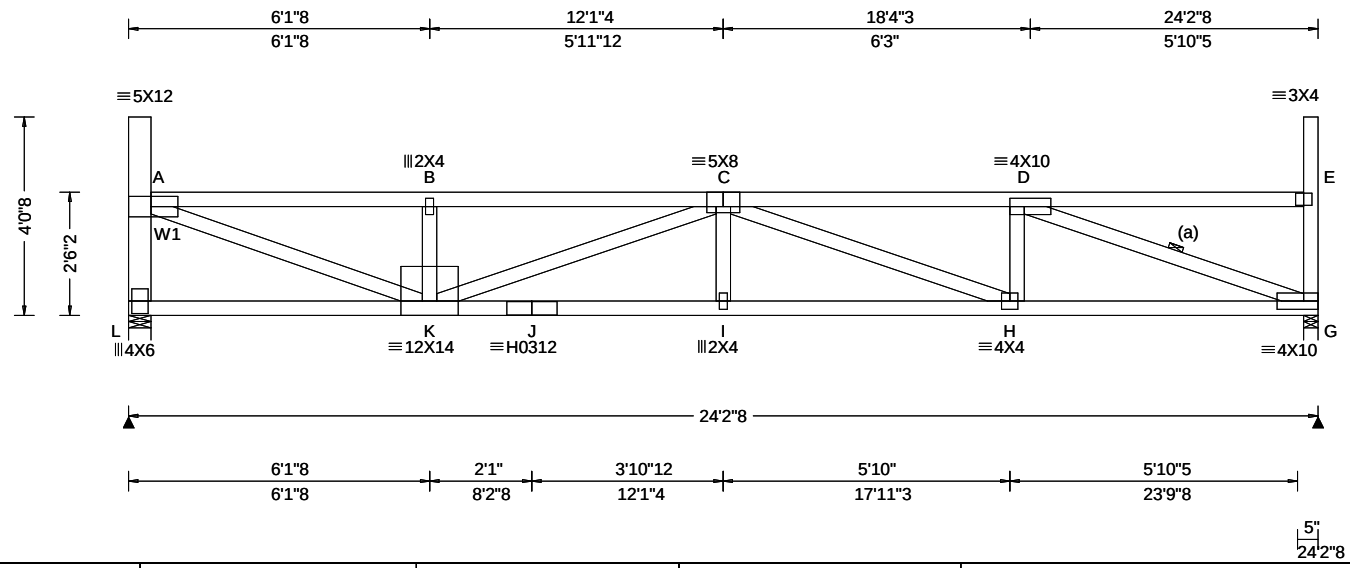
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37859 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T27	Cust: R 9316 JRef:1XfQ93160003 T105 DrwNo: 142.22.1747.04203 / FK 05/22/2022



Loading Criteria (psf)

TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria

Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.268	I	999	360
VERT(CL): 0.497	I	584	240
HORZ(LL): 0.051	G	-	-
HORZ(TL): 0.094	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.719
Max BC CSI: 0.629
Max Web CSI: 0.846

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/115
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	186	- 3416	C - D	168	- 3448
B - C	185	- 3412			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4417	- 255	I - H	4417	- 255
J - I	4417	- 255	H - G	3347	- 170

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1374	C - H	104	- 1037
A - K	3447	- 198	H - D	772	0
K - C	105	- 1072	D - G	198	- 3524

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

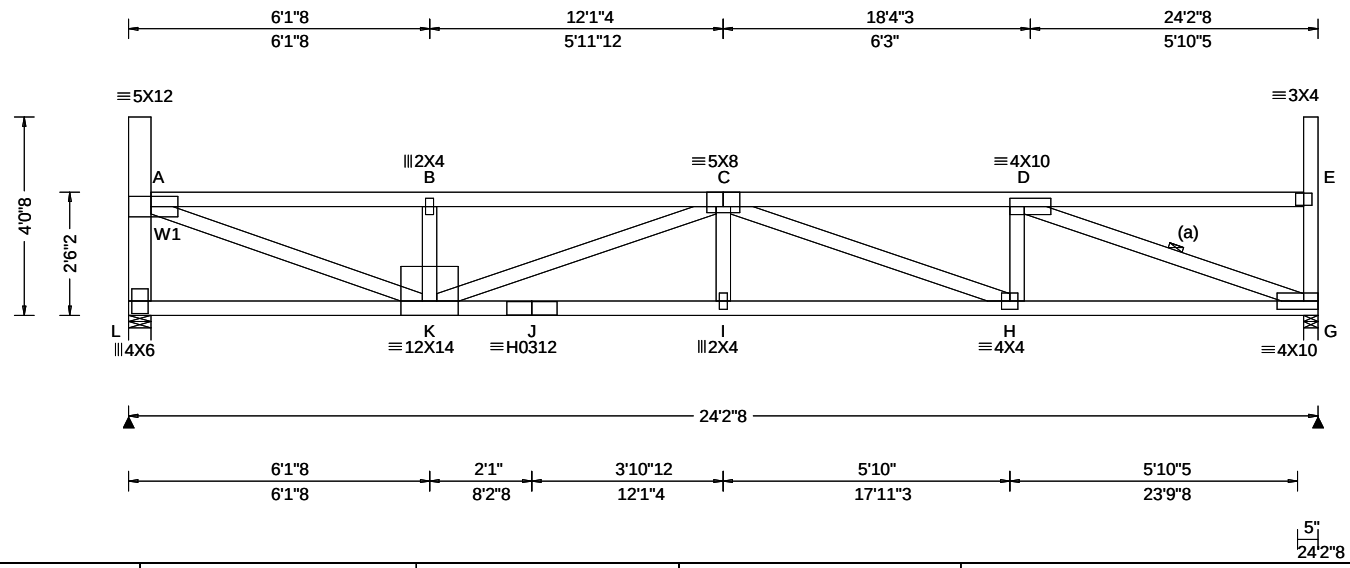
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37860 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T27A	Cust: R 9316 JRef:1XfQ93160003 T25 DrwNo: 142.22.1747.06820 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.268 I	999	360
VERT(CL):	0.497 I	584	240
HORZ(LL):	0.051 G	-	-
HORZ(TL):	0.094 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.719
Max BC CSI: 0.629
Max Web CSI: 0.846

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/115
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	186	- 3416	C - D	168	- 3448
B - C	185	- 3412			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4417	- 255	I - H	4417	- 255
J - I	4417	- 255	H - G	3347	- 170

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1374	C - H	104	- 1037
A - K	3447	- 198	H - D	772	0
K - C	105	- 1072	D - G	198	- 3524

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

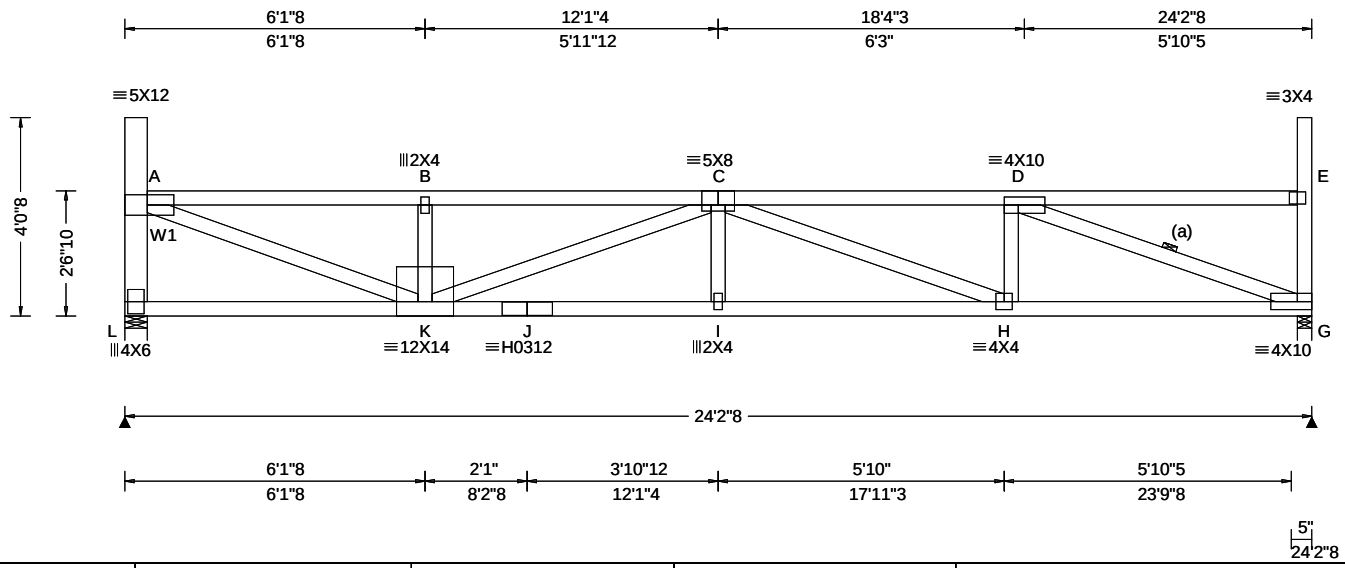
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37861 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T28	Cust: R 9316 JRef:1XfQ93160003 T107 DrwNo: 142.22.1747.09547 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.258	I	999	360
VERT(CL): 0.480	I	604	240
HORZ(LL): 0.050	G	-	-
HORZ(TL): 0.093	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.687
Max BC CSI: 0.623
Max Web CSI: 0.832

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/113
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	183	- 3355	C - D	165	- 3386
B - C	182	- 3350			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4336	- 252	I - H	4336	- 252
J - I	4336	- 252	H - G	3287	- 168

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1374	C - H	102	- 1020
A - K	3391	- 195	H - D	772	0
K - C	102	- 1054	D - G	195	- 3469

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

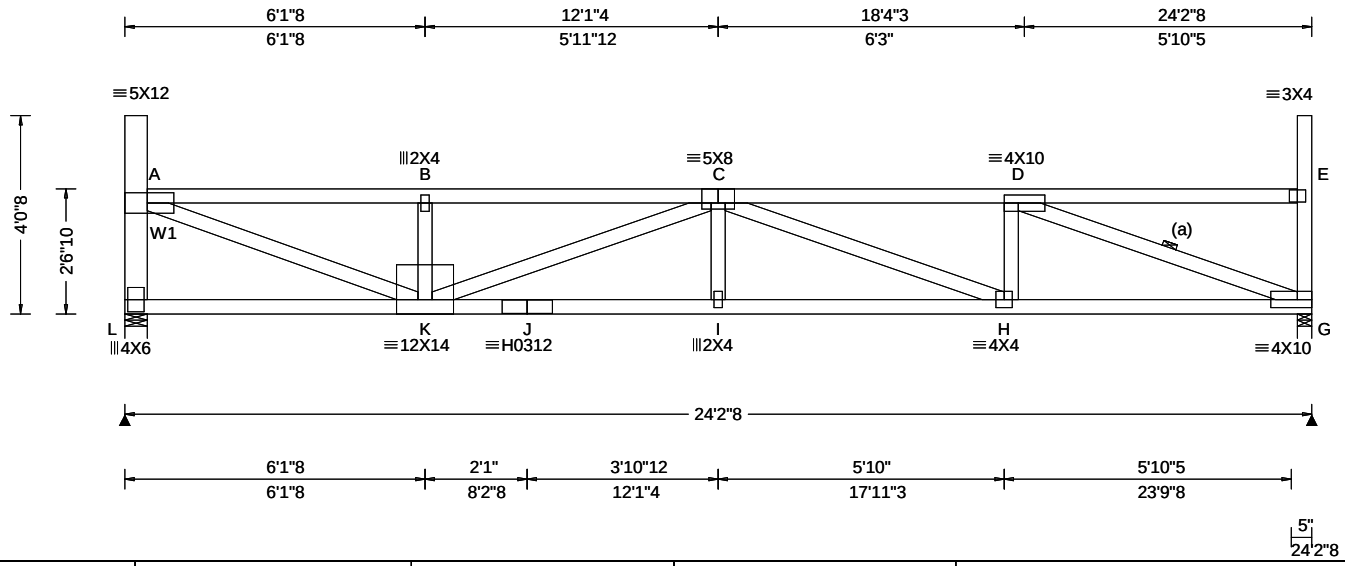
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37862 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T28A	Cust: R 9316 JRef:1XfQ93160003 T19 DrwNo: 142.22.1747.12337 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.258	I	999	360
VERT(CL): 0.480	I	604	240
HORZ(LL): 0.050	G	-	-
HORZ(TL): 0.093	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.687
Max BC CSI: 0.623
Max Web CSI: 0.832

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/113
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	183	- 3355	C - D	165	- 3386
B - C	182	- 3350			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4336	- 252	I - H	4336	- 252
J - I	4336	- 252	H - G	3287	- 168

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	93	- 1374	C - H	102	- 1020
A - K	3391	- 195	H - D	772	0
K - C	102	- 1054	D - G	195	- 3469

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

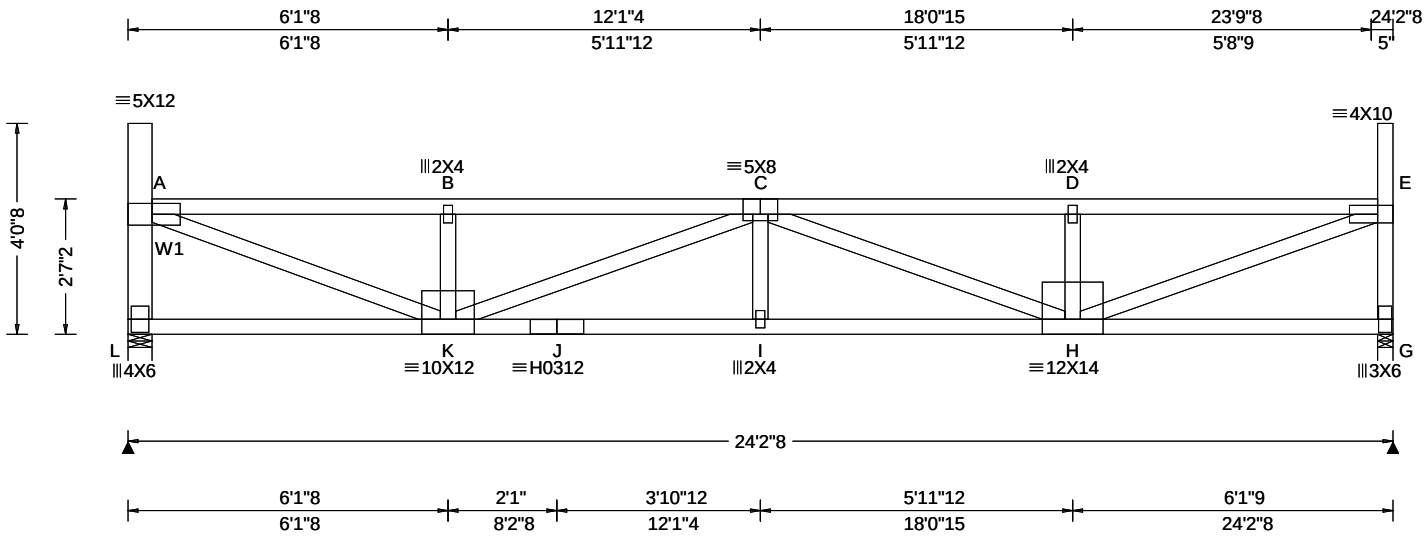
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37863 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T29	Cust: R 9316 JRef:1XfQ93160003 T111 DrwNo: 142.22.1747.14950 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.256 I	999	360
VERT(CL):	0.476 I	610	240
HORZ(LL):	0.049 A	-	-
HORZ(TL):	0.090 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.694
Max BC CSI: 0.608
Max Web CSI: 0.836

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/112
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	180	- 3295	C - D	165	- 3299
B - C	180	- 3291	D - E	166	- 3304

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4259	- 248	I - H	4259	- 248
J - I	4259	- 248			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	- 1374	C - H	97	- 1029
A - K	3338	- 192	D - H	77	- 381
B - K	77	- 377	H - E	3407	- 191
K - C	99	- 1038	E - G	95	- 1394

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.45	17.27	4.16
23.92	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

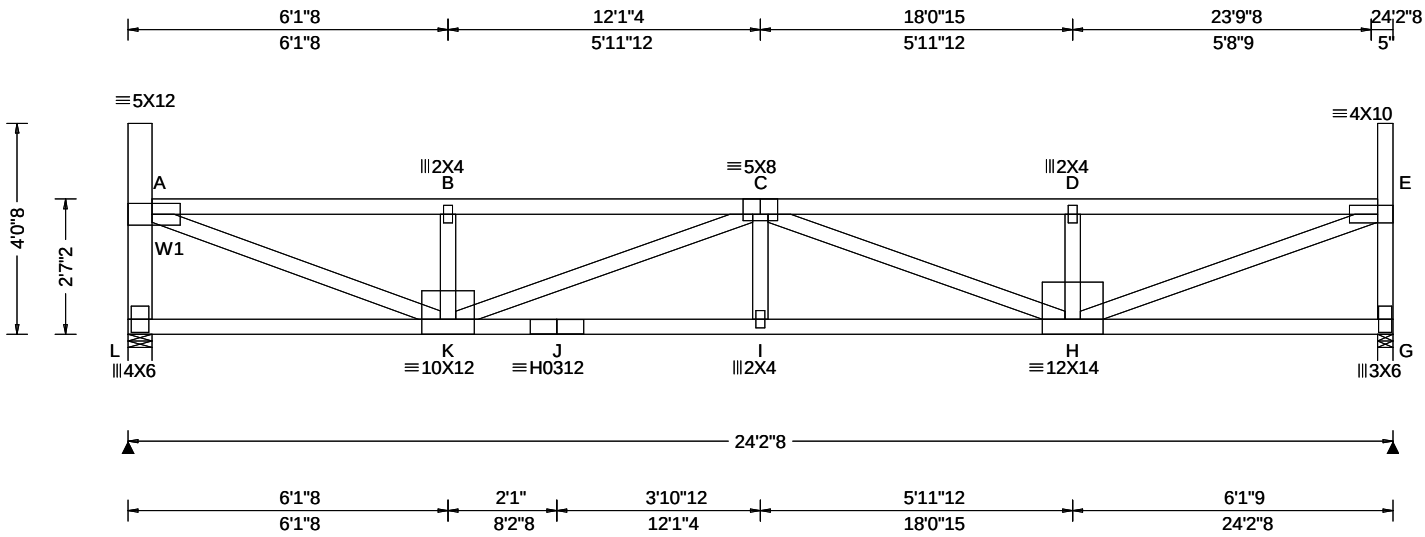
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37864 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T29A	Cust: R 9316 JRef:1XfQ93160003 T13 DrwNo: 142.22.1747.31687 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.256	I	999	360
VERT(CL): 0.476	I	610	240
HORZ(LL): 0.049	A	-	-
HORZ(TL): 0.090	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.694
Max BC CSI: 0.608
Max Web CSI: 0.836

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/112
G	1553	/-	/-	/736	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	180	- 3295	C - D	165	- 3299
B - C	180	- 3291	D - E	166	- 3304

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4259	- 248	I - H	4259	- 248
J - I	4259	- 248			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	- 1374	C - H	97	- 1029
A - K	3338	- 192	D - H	77	- 381
B - K	77	- 377	H - E	3407	- 191
K - C	99	- 1038	E - G	95	- 1394

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.45	17.27	4.16
23.92	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

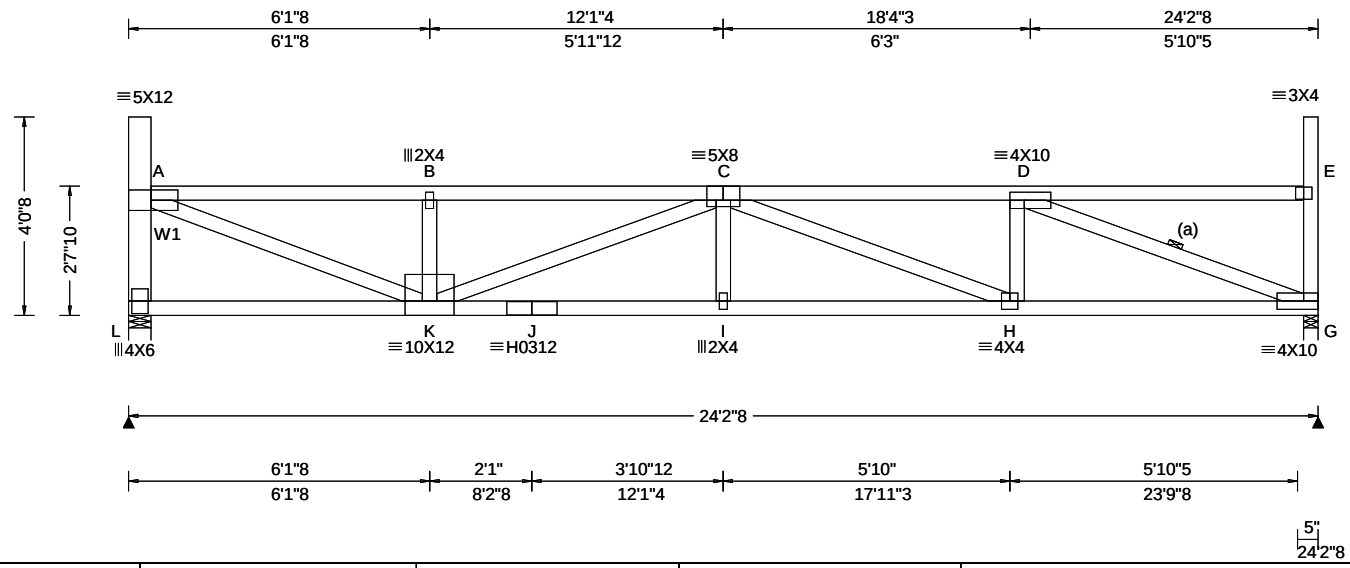
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37865 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T30	Cust: R 9316 JRef:1XfQ93160003 T122 DrwNo: 142.22.1747.34627 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.242 I	999	360
VERT(CL):	0.449 I	646	240
HORZ(LL):	0.048 G	-	-
HORZ(TL):	0.089 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.649
Max BC CSI: 0.612
Max Web CSI: 0.806

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/111
G	1553	/-	/-	/735	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	178	-3238	C - D	159	-3267
B - C	177	-3234			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4184	-246	I - H	4184	-246
J - I	4184	-246	H - G	3172	-164

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	-1375	C - H	98	-988
A - K	3287	-188	H - D	772	0
B - K	77	-377	D - G	189	-3364
K - C	98	-1021			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

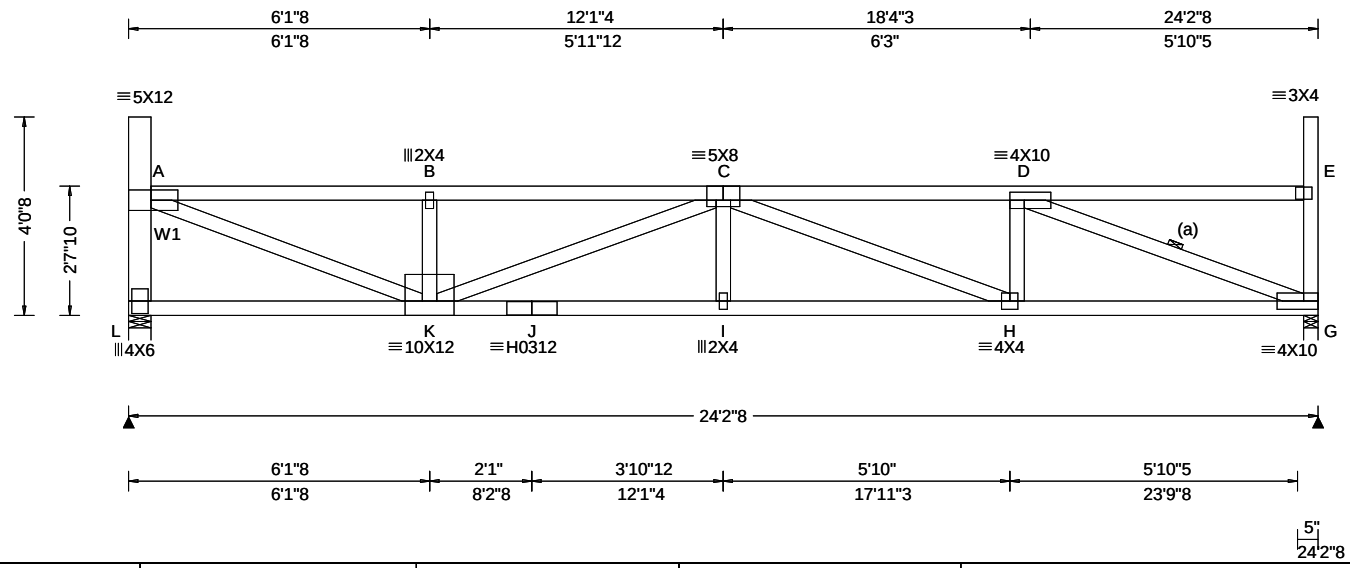
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37866 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T30A	Cust: R 9316 JRef:1XfQ93160003 T23 DrwNo: 142.22.1747.37363 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.242 I	999	360
VERT(CL):	0.449 I	646	240
HORZ(LL):	0.048 G	-	-
HORZ(TL):	0.089 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.649
Max BC CSI: 0.612
Max Web CSI: 0.806

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/111
G	1553	/-	/-	/735	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	178	- 3238	C - D	159	- 3267
B - C	177	- 3234			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4184	- 246	I - H	4184	- 246
J - I	4184	- 246	H - G	3172	- 164

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	- 1375	C - H	98	- 988
A - K	3287	- 188	H - D	772	0
B - K	77	- 377	D - G	189	- 3364
K - C	98	- 1021			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

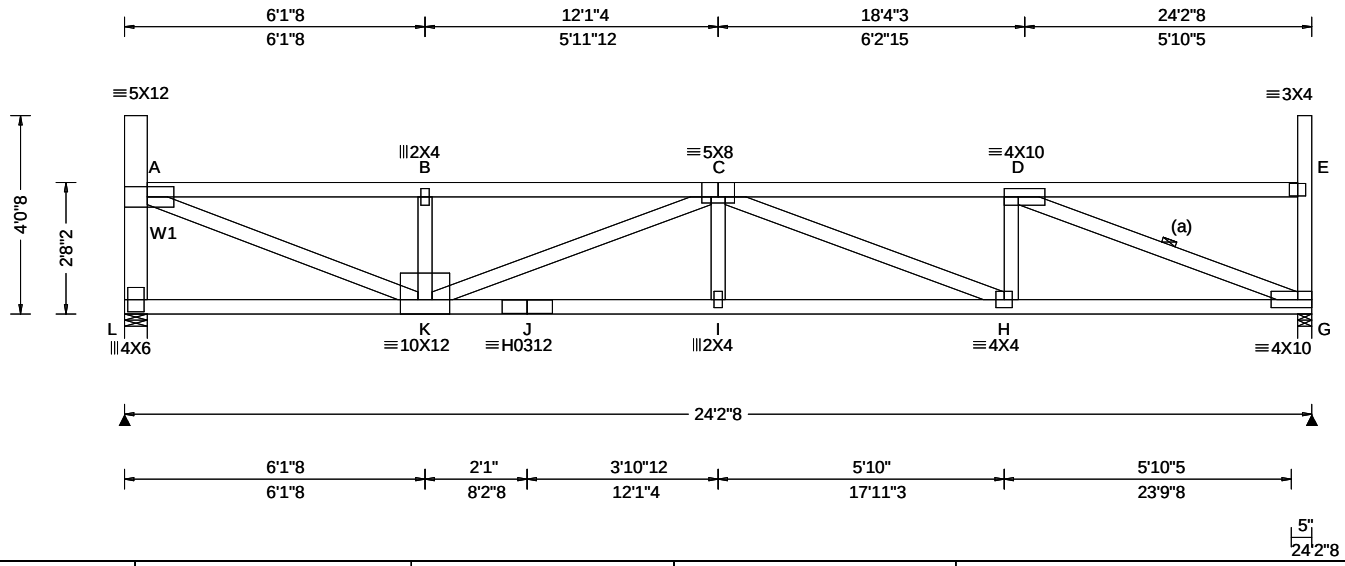
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37867 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T31	Cust: R 9316 JRef:1XfQ93160003 T129 DrwNo: 142.22.1747.40307 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.234 I	999	360
VERT(CL):	0.435 I	668	240
HORZ(LL):	0.047 G	-	-
HORZ(TL):	0.088 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.637
Max BC CSI: 0.606
Max Web CSI: 0.794

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/109
G	1553	/-	/-	/735	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	175	-3183	C - D	156	-3211
B - C	174	-3178			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4111	-242	I - H	4111	-242
J - I	4111	-242	H - G	3118	-162

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	-1375	C - H	96	-972
A - K	3237	-185	H - D	772	0
B - K	77	-379	D - G	186	-3314
K - C	96	-1005			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.36	14.50	3.50
23.92	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

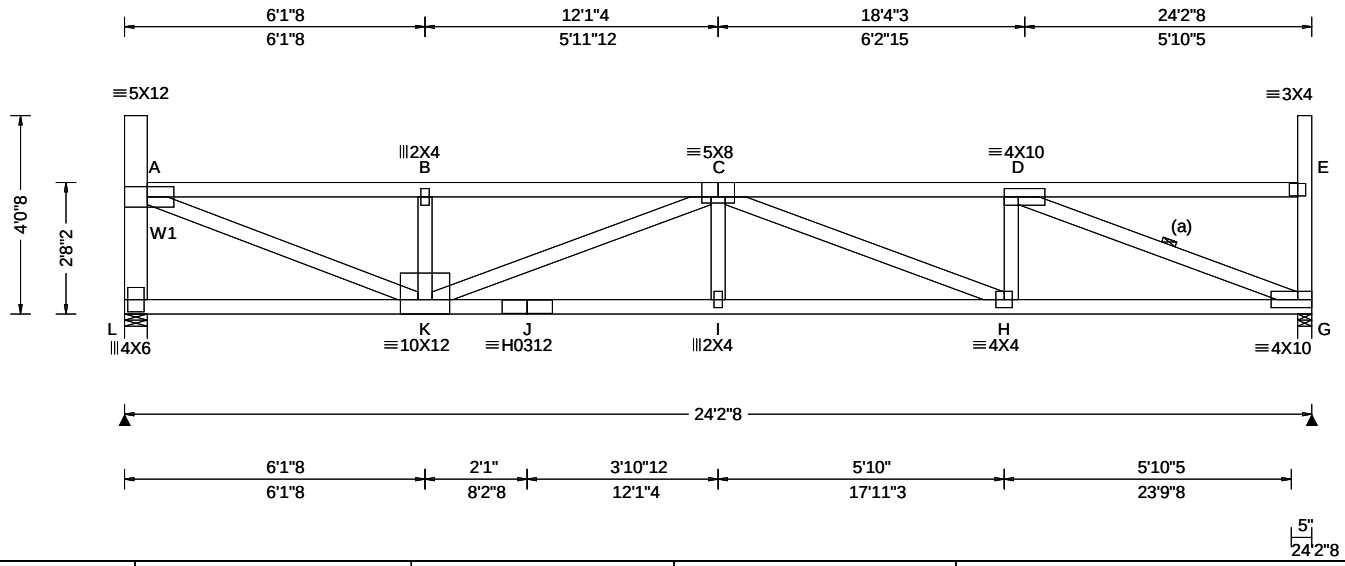
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37868 FLAT	Ply: 1	**Job Number:** JB-220700	Cust: R 9316 JRef:1XfQ93160003 T18
FROM:	Qty: 1	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1747.43073
		Truss Label: T31A	/ FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.234 I	999	360
VERT(CL):	0.435 I	668	240
HORZ(LL):	0.047 G	-	-
HORZ(TL):	0.088 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.637
Max BC CSI: 0.606
Max Web CSI: 0.794

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/729	/79	/109
G	1553	/-	/-	/735	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 5.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	175	- 3183	C - D	156	- 3211
B - C	174	- 3178			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4111	- 242	I - H	4111	- 242
J - I	4111	- 242	H - G	3118	- 162

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	- 1375	C - H	96	- 972
A - K	3237	- 185	H - D	772	0
B - K	77	- 379	D - G	186	- 3314
K - C	96	- 1005			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.36	14.50	3.50
23.92	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.20". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

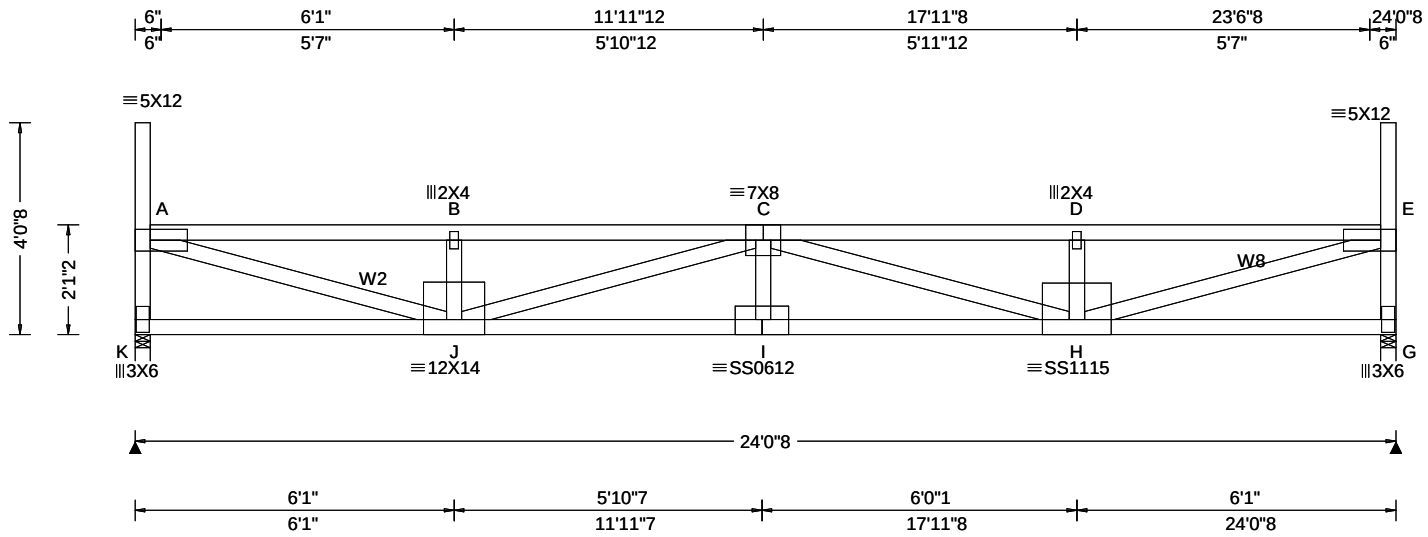
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37869 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T33	Cust: R 9316 JRef:1XfQ93160003 T166 DrwNo: 142.22.1747.45727 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.380 I	759	360
VERT(CL):	0.706 I	408	240
HORZ(LL):	0.059 A	-	-
HORZ(TL):	0.110 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.932
Max BC CSI: 0.715
Max Web CSI: 0.844

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/733	/80	/138
G	1542	/-	/-	/733	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	239	-4139	C - D	239	-4138
B - C	238	-4133	D - E	239	-4143

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5337	-302	I - H	5337	-302

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	94	-1381	C - H	138	-1252
A - J	4178	-243	H - E	4183	-245
J - C	141	-1258	E - G	94	-1382

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2,W8 2x4 SPF 2100f-1.8E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.95	33.87	4.20
23.75	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.33". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

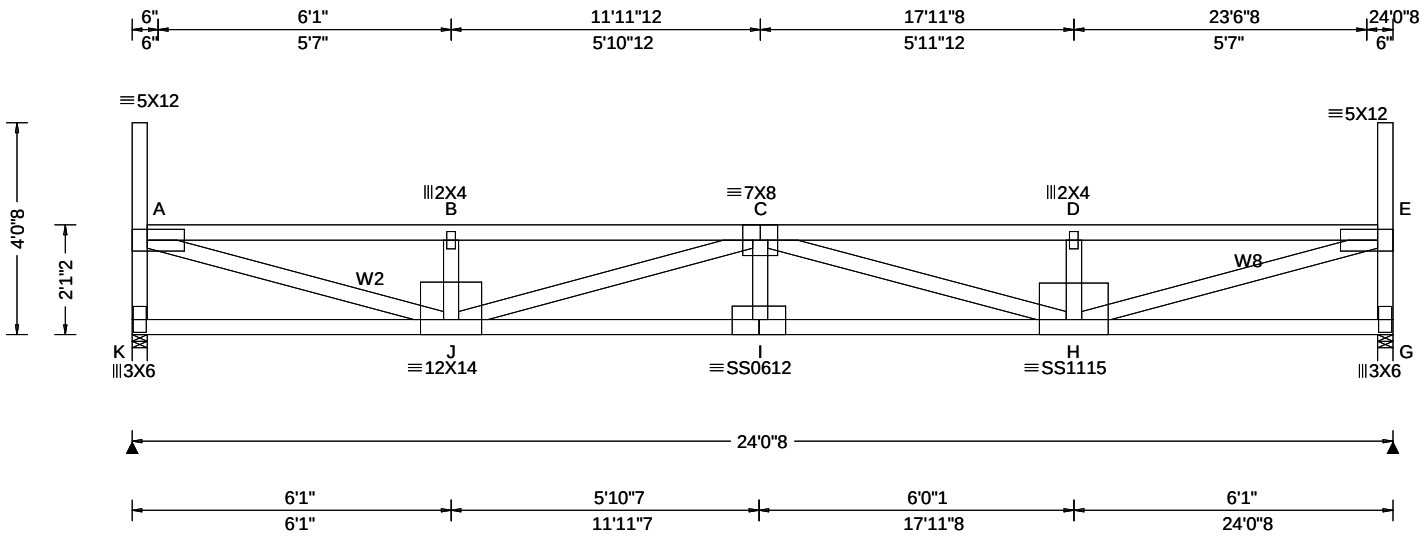
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37870 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T33A	Cust: R 9316 JRef:1XfQ93160003 T191 DrwNo: 142.22.1747.48620 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.76 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.380	I	759	360
VERT(CL): 0.706	I	408	240
HORZ(LL): 0.059	A	-	-
HORZ(TL): 0.110	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.932
Max BC CSI: 0.715
Max Web CSI: 0.844

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1541	/-	/-	/733	/86	/139
G	1542	/-	/-	/733	/86	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	255	- 4139	C - D	254	- 4138
B - C	254	- 4133	D - E	255	- 4143

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5337	- 321	I - H	5337	- 321

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	99	- 1381	C - H	138	- 1252
A - J	4178	- 256	H - E	4183	- 257
J - C	142	- 1258	E - G	99	- 1382

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2,W8 2x4 SPF 2100f-1.8E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.95	33.87	4.20
23.75	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.33". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

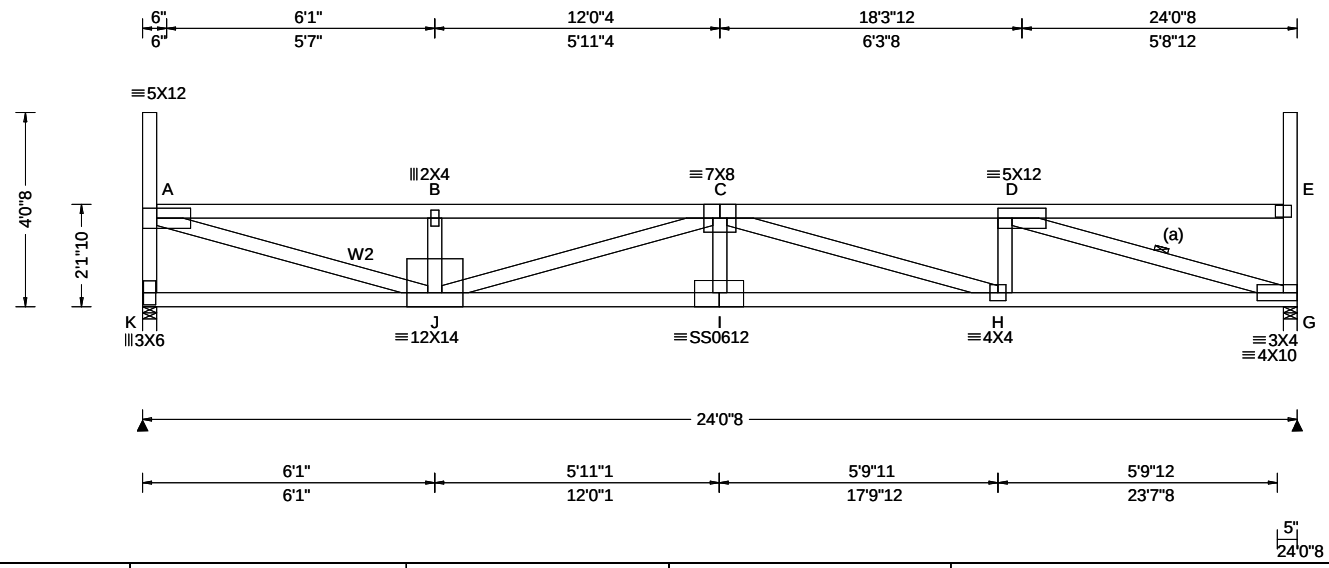
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37871 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T34	Cust: R 9316 JRef:1XfQ93160003 T154 DrwNo: 142.22.1747.51550 / FK 05/22/2022	



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.363	I	795	360
VERT(CL): 0.674	I	428	240
HORZ(LL): 0.059	G	-	-
HORZ(TL): 0.110	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.916
Max BC CSI: 0.703
Max Web CSI: 0.849

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1542	/-	/-	/732	/80	/137
G	1542	/-	/-	/732	/80	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	235	- 4051	C - D	231	- 4073
B - C	234	- 4046			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5221	- 298	H - G	3954	- 199
I - H	5221	- 298			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	94	- 1382	C - H	138	- 1205
A - J	4097	- 237	H - D	767	- 1
J - C	139	- 1231	D - G	231	- 4084

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

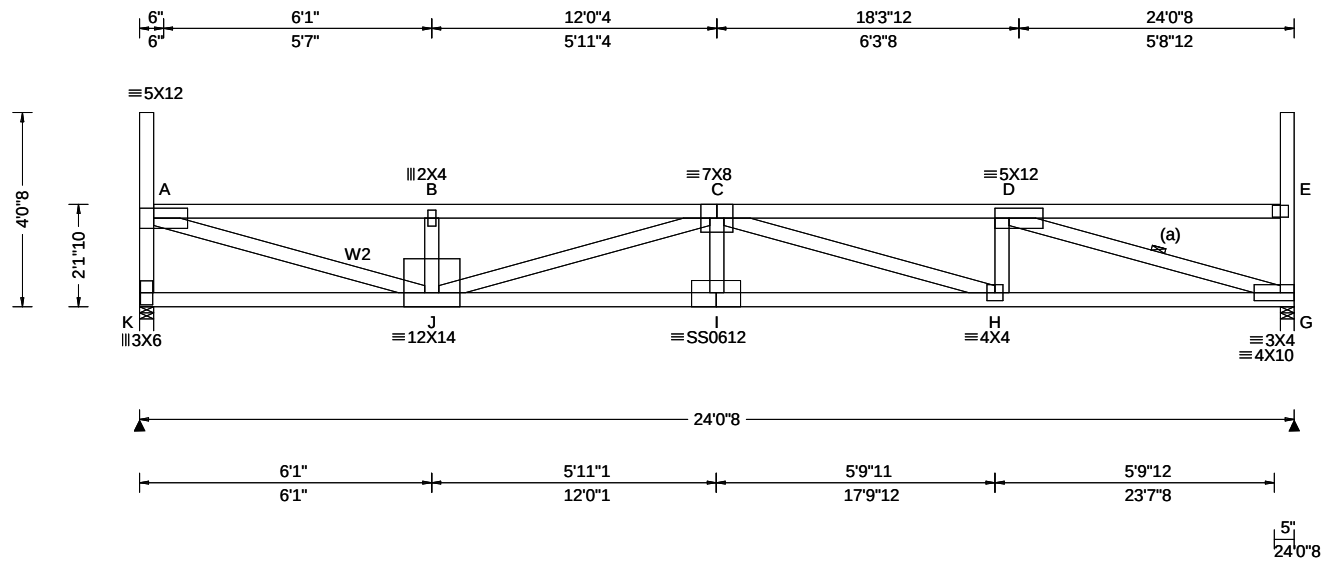
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37872 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T34A	Cust: R 9316 JRef:1XfQ93160003 T200 DrwNo: 142.22.1747.54217 / FK 05/22/2022	



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.80 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.363	I	795	360
VERT(CL): 0.674	I	428	240
HORZ(LL): 0.059	G	-	-
HORZ(TL): 0.110	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.916
Max BC CSI: 0.703
Max Web CSI: 0.849

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1542	/-	/-	/733	/86	/138
G	1542	/-	/-	/733	/86	/-

Wind reactions based on MWFRS
K Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings K & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	250	- 4051	C - D	247	- 4073
B - C	249	- 4046			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
J - I	5221	- 317	H - G	3954	- 214
I - H	5221	- 317			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - A	100	- 1382	C - H	138	- 1205
A - J	4097	- 251	H - D	767	- 2
J - C	140	- 1231	D - G	247	- 4084

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

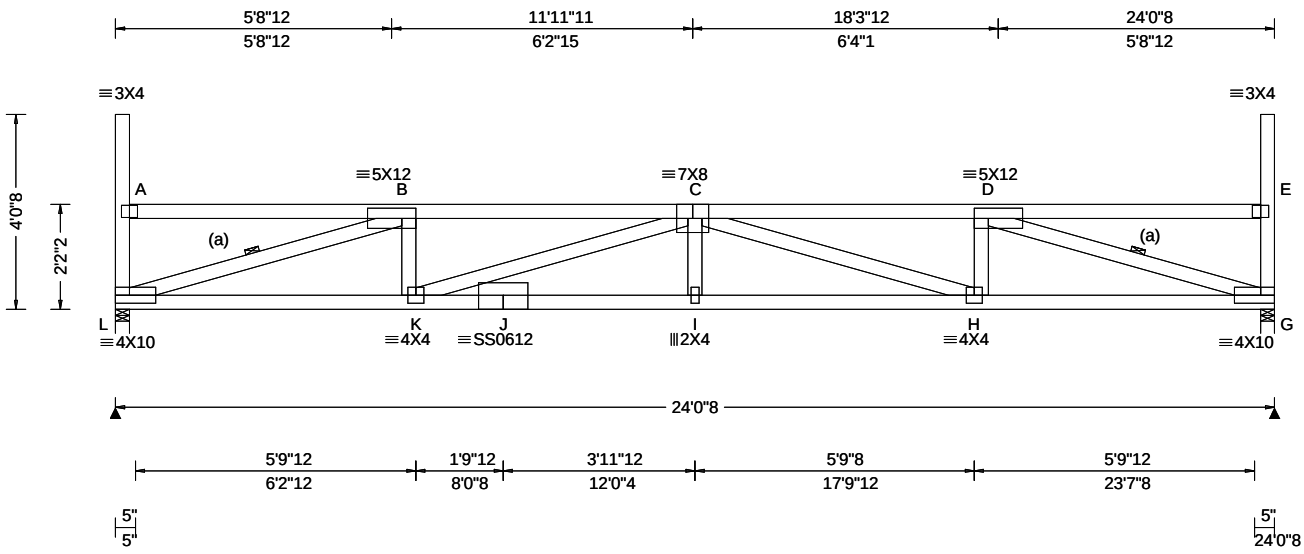
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37873 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T35	Cust: R 9316 JRef:1XfQ93160003 T156 DrwNo: 142.22.1747.57210 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.346 I	833	360
VERT(CL):	0.643 I	448	240
HORZ(LL):	0.073 G	-	-
HORZ(TL):	0.136 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.679
Max BC CSI: 0.683
Max Web CSI: 0.833

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/80	/135
G	1541	/-	/-	/732	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	225	- 3982	C - D	225	- 3981

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3864	- 350	I - H	5103	- 291
K - J	5103	- 291	H - G	3864	- 194
J - I	5103	- 291			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	225	- 4000	C - H	134	- 1180
B - K	768	- 1	H - D	767	- 1
K - C	135	- 1179	D - G	225	- 3999

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.35" DL: 0.30". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

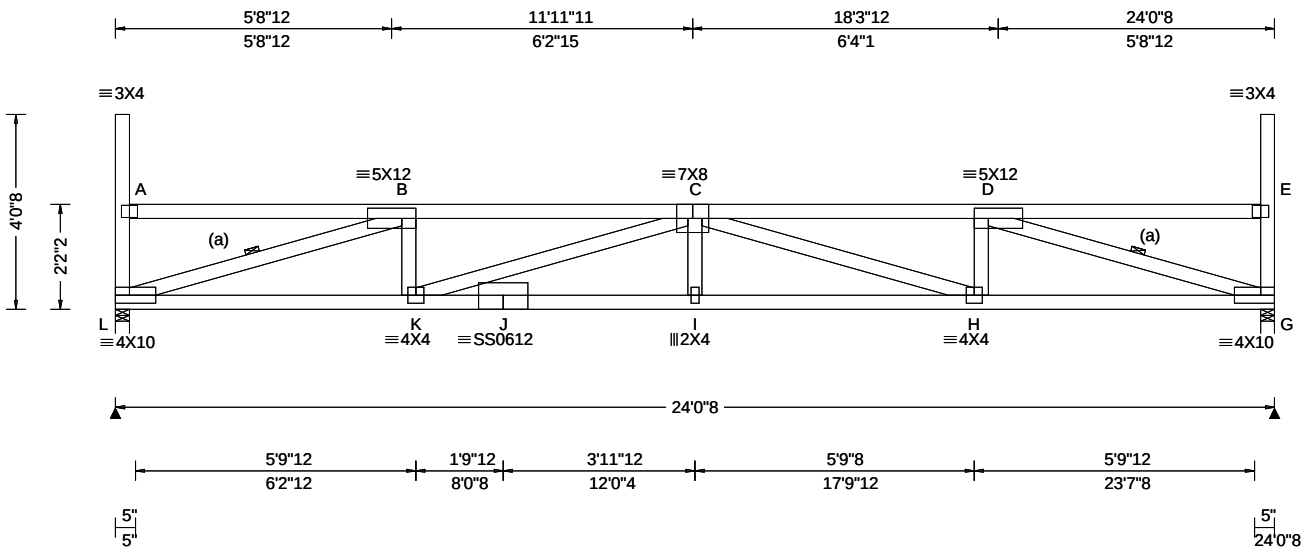
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37874 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T35A	Cust: R 9316 JRef:1XfQ93160003 T205 DrwNo: 142.22.1748.00200 / FK 05/22/2022	



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.84 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.346	I	833	360
VERT(CL): 0.643	I	448	240
HORZ(LL): 0.073	G	-	-
HORZ(TL): 0.136	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.679
Max BC CSI: 0.683
Max Web CSI: 0.833

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/86	/136
G	1541	/-	/-	/732	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	240	-3982	C - D	240	-3981

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3864	-352	I - H	5103	-310
K - J	5103	-310	H - G	3864	-209
J - I	5103	-310			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	241	-4000	C - H	134	-1180
B - K	768	-1	H - D	767	-1
K - C	136	-1179	D - G	240	-3999

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.35" DL: 0.30". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

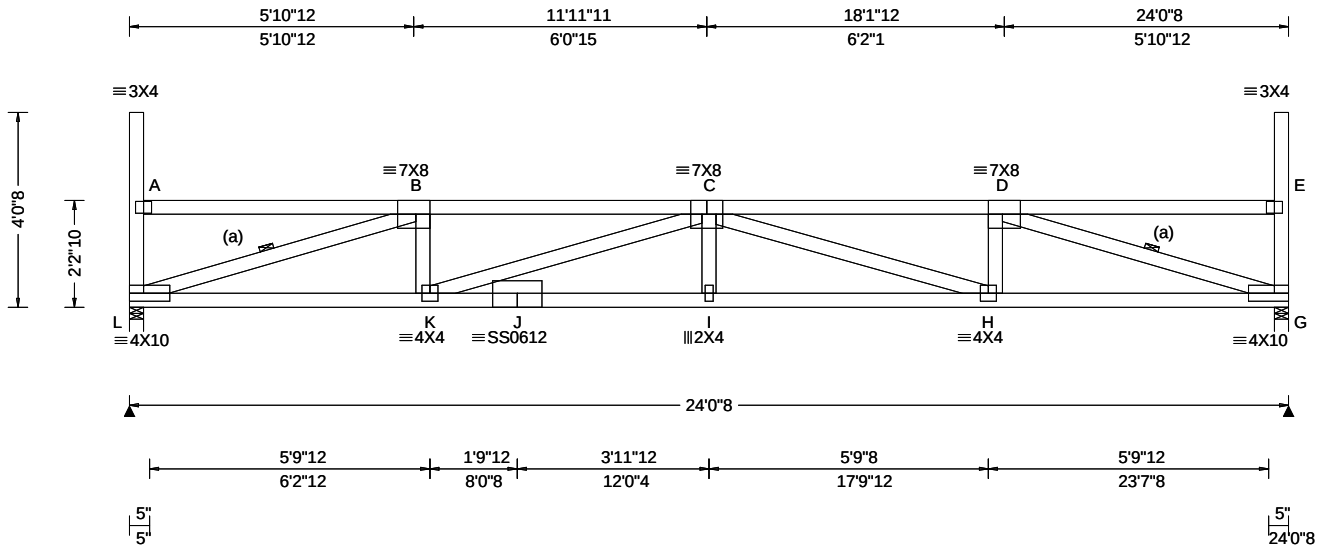
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37875 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T36	Cust: R 9316 JRef:1XfQ93160003 T152 DrwNo: 142.22.1748.03030 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.332	I	868	360
VERT(CL): 0.617	I	467	240
HORZ(LL): 0.072	G	-	-
HORZ(TL): 0.134	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.656
Max BC CSI: 0.673
Max Web CSI: 0.820

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/80	/134
G	1541	/-	/-	/732	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	221	-3898	C - D	221	-3897

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3783	-344	I - H	4994	-287
K - J	4994	-287	H - G	3782	-192
J - I	4994	-287			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	221	-3924	C - H	131	-1156
B - K	768	-1	H - D	767	-1
K - C	132	-1155	D - G	221	-3923

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.82	29.72	4.79
23.75	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.33" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

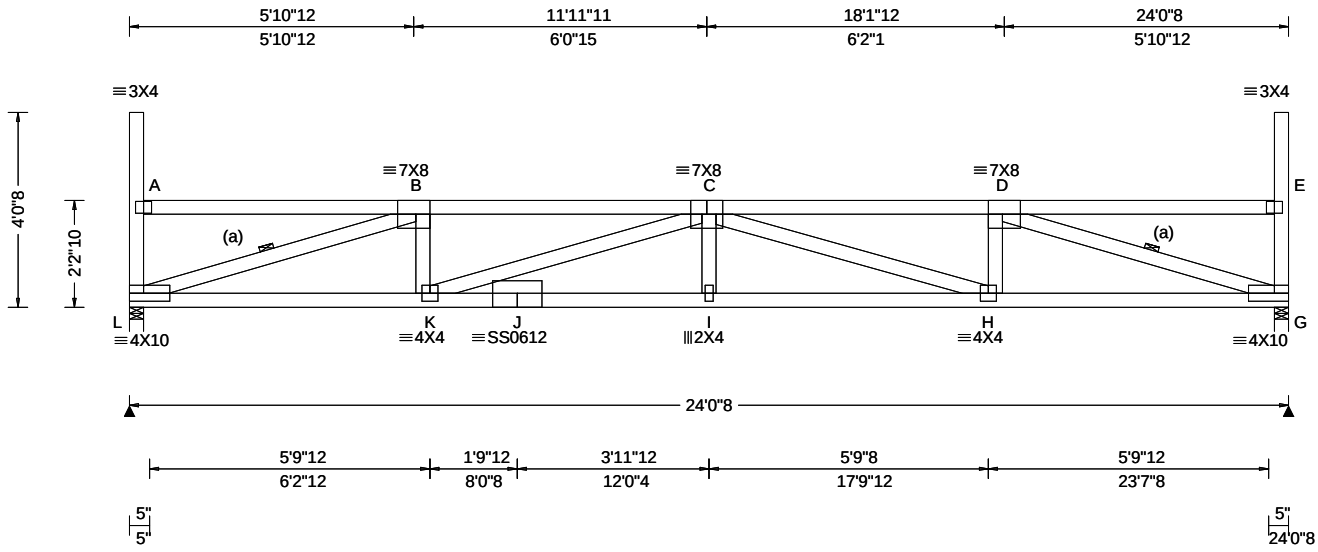
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37876 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T36A	Cust: R 9316 JRef:1XfQ93160003 T213 DrwNo: 142.22.1748.05820 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.89 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.332 I	868	360
VERT(CL):	0.617 I	467	240
HORZ(LL):	0.072 G	-	-
HORZ(TL):	0.134 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.656
Max BC CSI: 0.673
Max Web CSI: 0.820

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/86	/135
G	1541	/-	/-	/732	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	236	-3898	C - D	236	-3897

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3783	-346	I - H	4994	-305
K - J	4994	-305	H - G	3782	-207
J - I	4994	-305			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	236	-3924	C - H	131	-1156
B - K	768	-1	H - D	767	-1
K - C	133	-1155	D - G	236	-3923

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.82	29.72	4.79
23.75	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

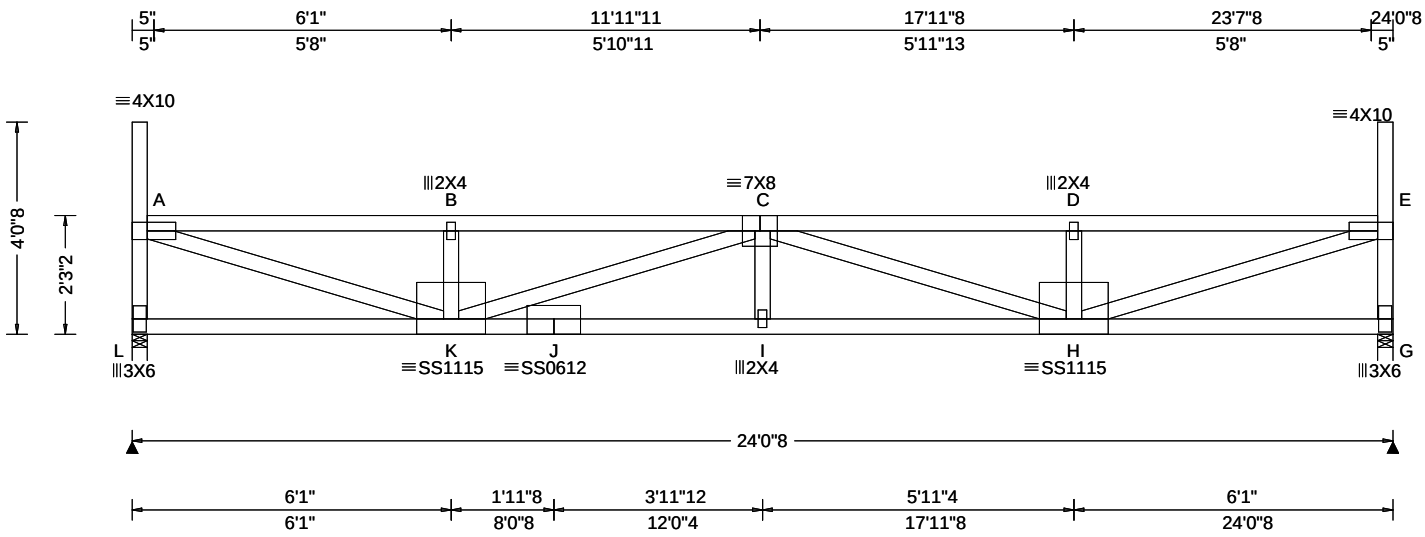
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37877 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T37	Cust: R 9316 JRef:1XfQ93160003 T160 DrwNo: 142.22.1748.08630 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.336 I	859	360
VERT(CL):	0.624 I	462	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.101 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.869
Max BC CSI: 0.662
Max Web CSI: 0.945

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/80	/133
G	1541	/-	/-	/732	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	199	- 3791	C - D	198	- 3785
B - C	198	- 3786	D - E	198	- 3790

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4892	- 281	I - H	4892	- 281
J - I	4892	- 281			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	- 1381	C - H	123	- 1166
A - K	3851	- 220	H - E	3850	- 221
K - C	127	- 1165	E - G	94	- 1380

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.78	28.34	5.03
23.75	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

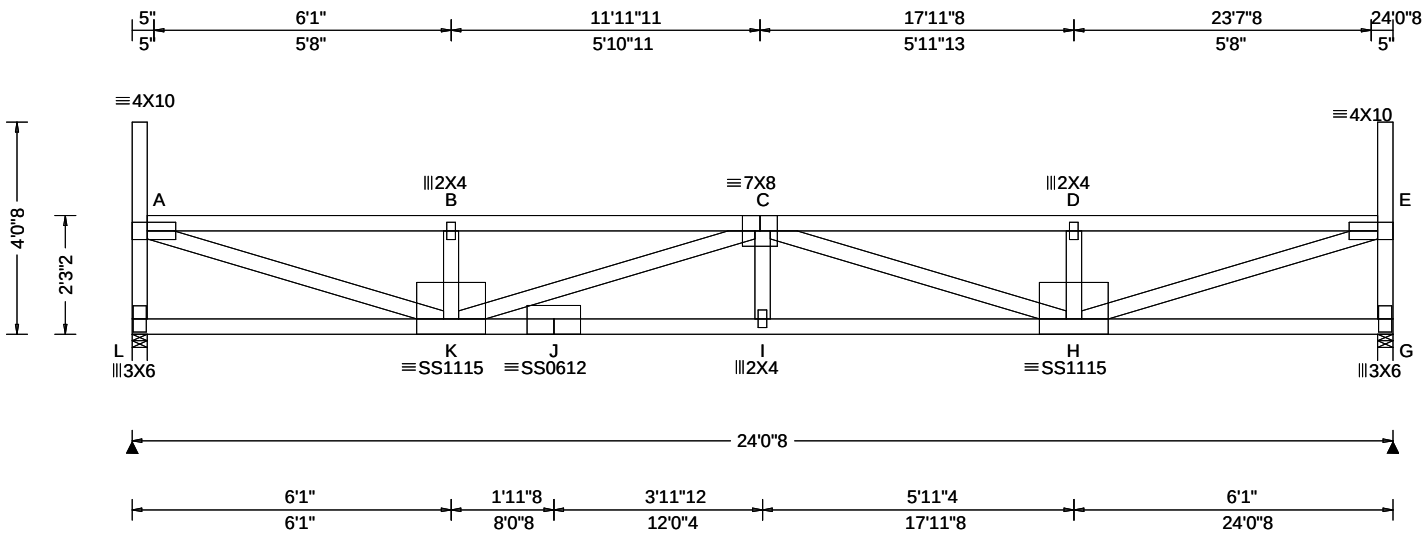
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37878 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T37A	Cust: R 9316 JRef:1XfQ93160003 T204 DrwNo: 142.22.1748.11457 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.93 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.336 I	859	360
VERT(CL):	0.624 I	462	240
HORZ(LL):	0.054 A	-	-
HORZ(TL):	0.101 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.869
Max BC CSI: 0.662
Max Web CSI: 0.945

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/86	/134
G	1541	/-	/-	/732	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	213	- 3791	C - D	212	- 3785
B - C	212	- 3786	D - E	213	- 3790

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4892	- 298	I - H	4892	- 298
J - I	4892	- 298			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1381	C - H	124	- 1166
A - K	3851	- 235	H - E	3850	- 235
K - C	128	- 1165	E - G	100	- 1380

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.78	28.34	5.03
23.75	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

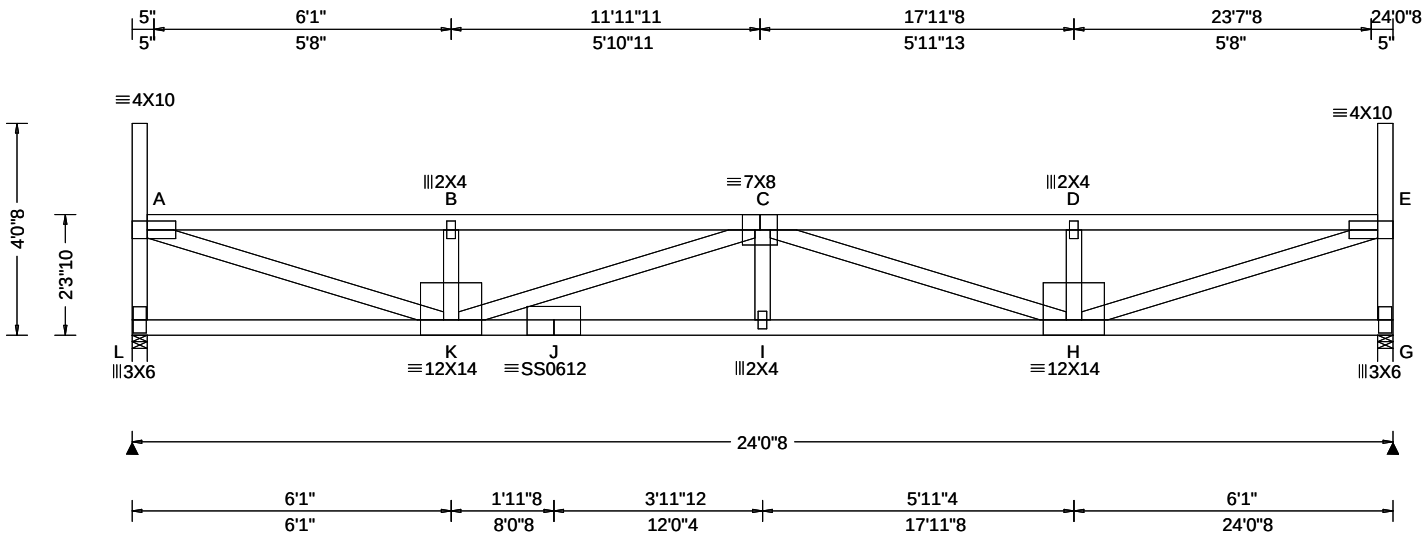
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37879 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T38	Cust: R 9316 JRef:1XfQ93160003 T162 DrwNo: 142.22.1748.14423 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.323 I	893	360
VERT(CL):	0.600 I	480	240
HORZ(LL):	0.053 A	-	-
HORZ(TL):	0.099 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.854
Max BC CSI: 0.652
Max Web CSI: 0.928

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/80	/132
G	1541	/-	/-	/732	/80	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	195	- 3715	C - D	194	- 3709
B - C	194	- 3710	D - E	195	- 3714

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4792	- 275	I - H	4792	- 275
J - I	4792	- 275			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	94	- 1381	C - H	112	- 1143
A - K	3781	- 216	H - E	3780	- 217
K - C	115	- 1142	E - G	94	- 1381

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.74	26.95	5.28
23.75	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

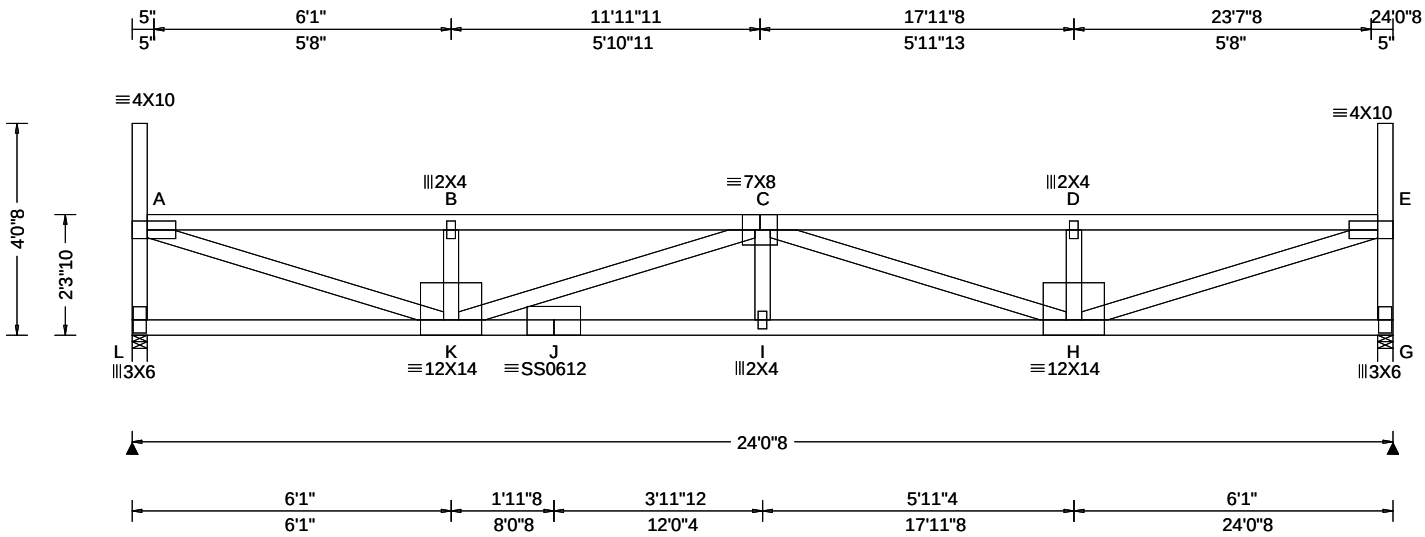
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37880 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T38A	Cust: R 9316 JRef:1XfQ93160003 T209 DrwNo: 142.22.1748.17110 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.97 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.323 I	893	360
VERT(CL):	0.600 I	480	240
HORZ(LL):	0.053 A	-	-
HORZ(TL):	0.099 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.854
Max BC CSI: 0.652
Max Web CSI: 0.928

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1541	/-	/-	/732	/86	/133
G	1541	/-	/-	/732	/86	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	209	- 3715	C - D	208	- 3709
B - C	208	- 3710	D - E	209	- 3714

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4792	- 293	I - H	4792	- 293
J - I	4792	- 293			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	100	- 1381	C - H	112	- 1143
A - K	3781	- 230	H - E	3780	- 231
K - C	116	- 1142	E - G	100	- 1381

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.74	26.95	5.28
23.75	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

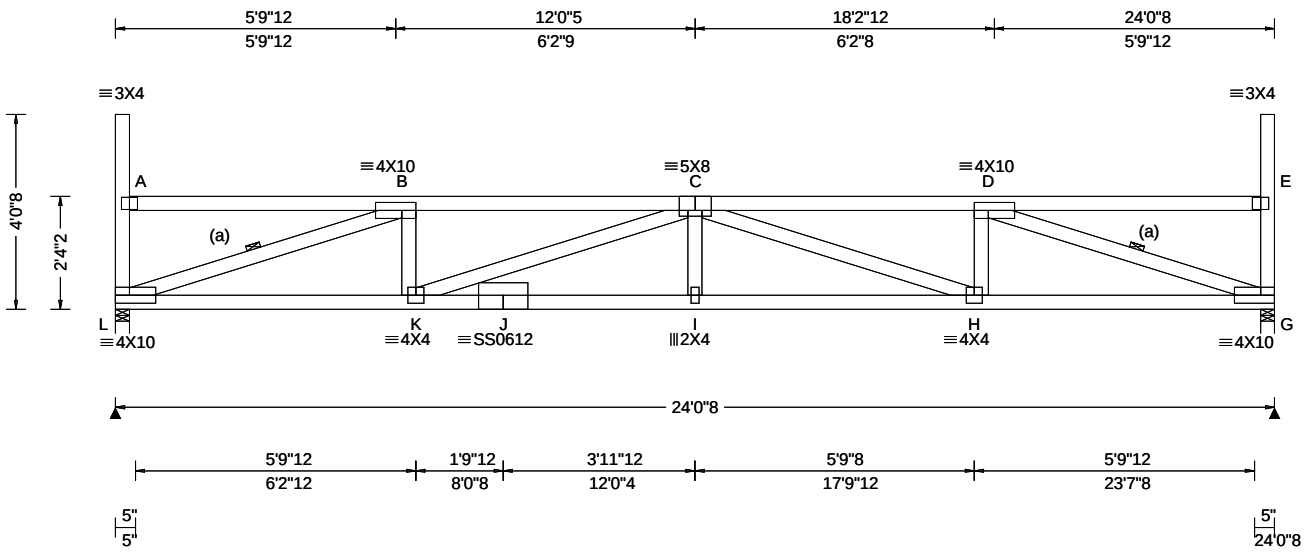
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37881 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T39	Cust: R 9316 JRef:1XfQ93160003 T158 DrwNo: 142.22.1748.20577 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.296 I	976	360
VERT(CL):	0.549 I	525	240
HORZ(LL):	0.068 G	-	-
HORZ(TL):	0.126 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.598
Max BC CSI: 0.650
Max Web CSI: 0.783

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/81	/131
G	1542	/-	/-	/732	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	188	-3671	C - D	189	-3670

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3563	-308	I - H	4703	-276
K - J	4703	-276	H - G	3562	-187
J - I	4703	-276			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	212	-3721	C - H	115	-1096
B - K	769	0	H - D	769	0
K - C	116	-1095	D - G	211	-3719

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.70	25.57	5.57
23.75	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

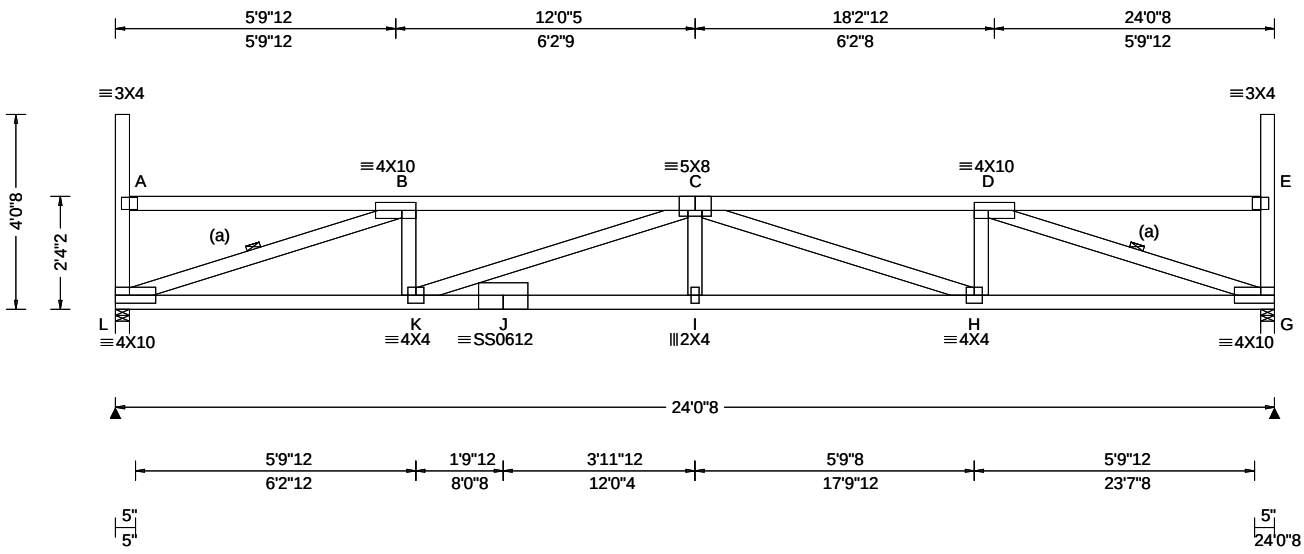
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37882 FLAT	Ply: 1	**Job Number:** JB-220700	Cust: R 9316 JRef:1XfQ93160003 T199
FROM:	Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1748.23230
		Truss Label: T39A	/ FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.01 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.296 I	976	360
VERT(CL):	0.549 I	525	240
HORZ(LL):	0.068 G	-	-
HORZ(TL):	0.126 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.598
Max BC CSI: 0.650
Max Web CSI: 0.783

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/132
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	202	- 3671	C - D	202	- 3670

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3563	- 310	I - H	4703	- 294
K - J	4703	- 294	H - G	3562	- 201
J - I	4703	- 294			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	226	- 3721	C - H	115	- 1096
B - K	769	0	H - D	769	0
K - C	117	- 1095	D - G	226	- 3719

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.70	25.57	5.57
23.75	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

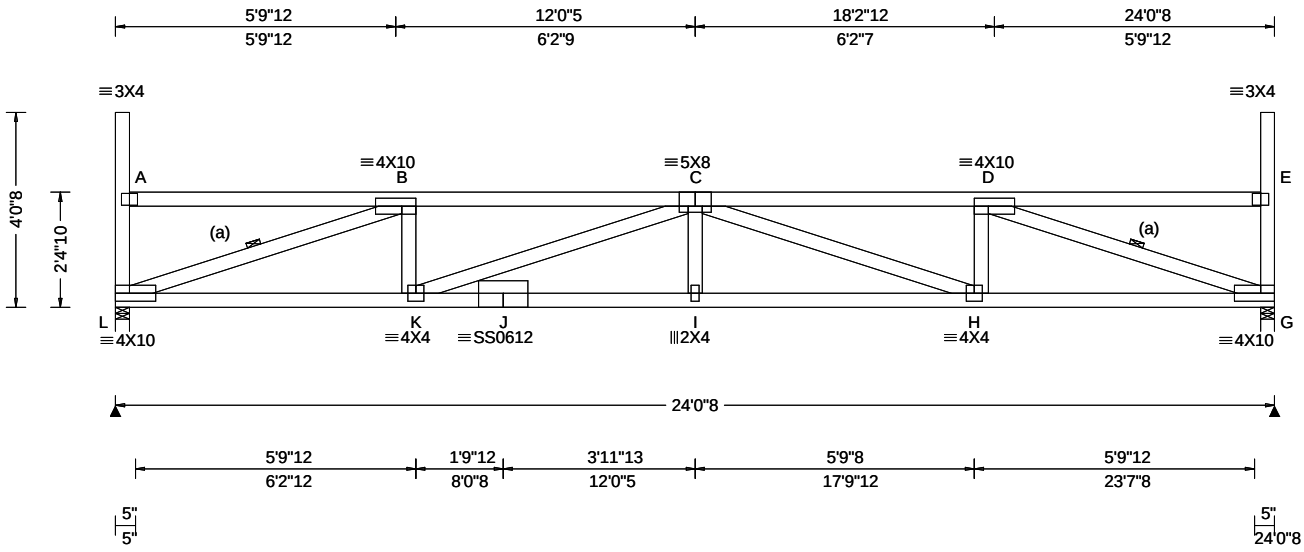
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37883 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T40	Cust: R 9316 JRef:1XfQ93160003 T155 DrwNo: 142.22.1748.26080 / FK 05/22/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.39 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.285 I	999	360
VERT(CL):	0.529 I	545	240
HORZ(LL):	0.066 G	-	-
HORZ(TL):	0.123 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.583
Max BC CSI: 0.643
Max Web CSI: 0.772

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/81	/129
G	1542	/-	/-	/732	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	185	-3600	C - D	185	-3598

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3494	-304	I - H	4611	-272
K - J	4611	-272	H - G	3492	-185
J - I	4611	-272			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	208	-3657	C - H	112	-1077
B - K	769	0	H - D	769	0
K - C	114	-1075	D - G	208	-3655

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

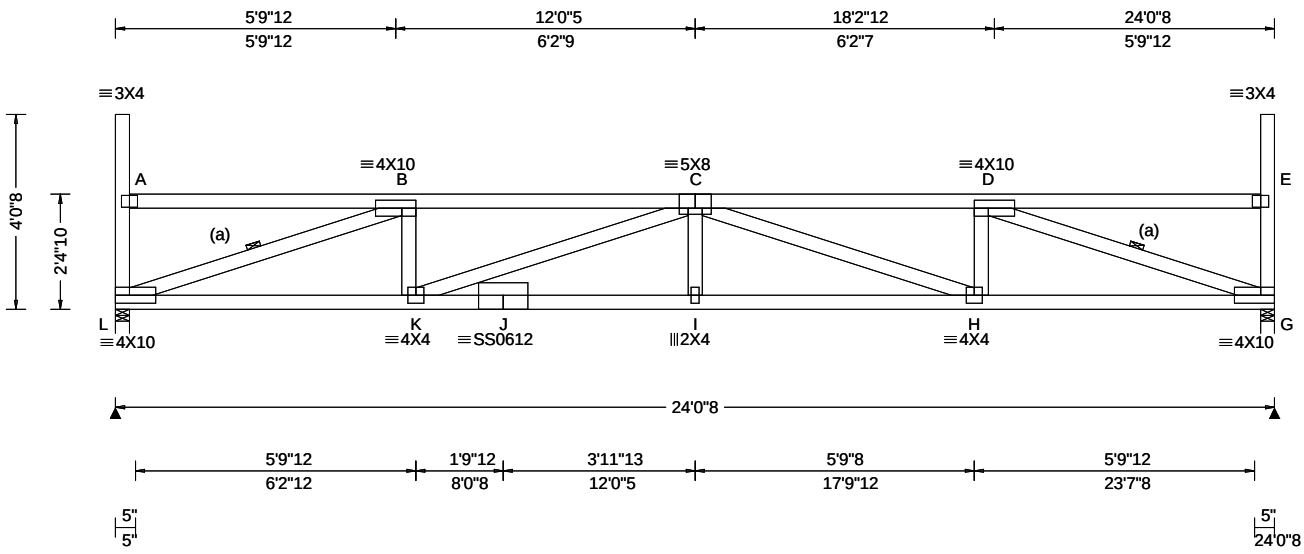
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37884 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T40A	Cust: R 9316 JRef:1XfQ93160003 T211 DrwNo: 142.22.1748.29127 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.05 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.285	I	999	360
VERT(CL): 0.529	I	545	240
HORZ(LL): 0.066	G	-	-
HORZ(TL): 0.123	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.583
Max BC CSI: 0.643
Max Web CSI: 0.772

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/131
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	199	-3600	C - D	199	-3598

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3494	-305	I - H	4611	-290
K - J	4611	-290	H - G	3492	-199
J - I	4611	-290			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	222	-3657	C - H	113	-1077
B - K	769	0	H - D	769	0
K - C	114	-1075	D - G	222	-3655

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

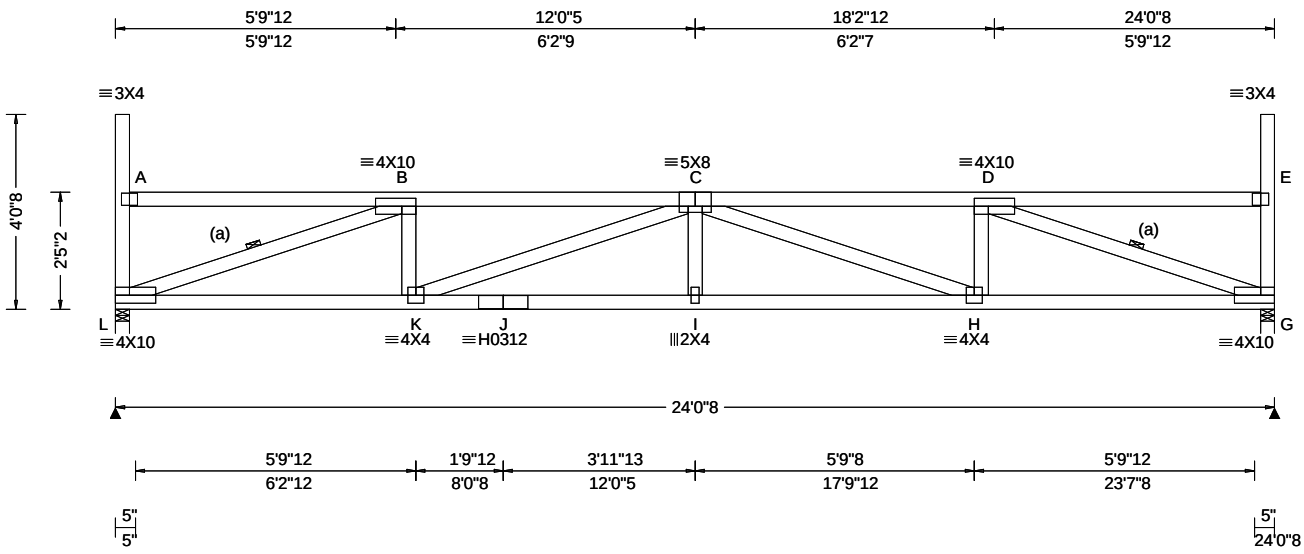
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37885 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T41	Cust: R 9316 JRef:1XfQ93160003 T151 DrwNo: 142.22.1748.32087 / FK 05/22/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.43 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.274 I	999	360
VERT(CL):	0.510 I	565	240
HORZ(LL):	0.065 G	-	-
HORZ(TL):	0.121 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.568
Max BC CSI: 0.637
Max Web CSI: 0.761

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/81	/128
G	1542	/-	/-	/732	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	182	- 3531	C - D	182	- 3530

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3427	- 299	I - H	4522	- 268
K - J	4522	- 268	H - G	3426	- 184
J - I	4522	- 268			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	205	- 3595	C - H	110	- 1058
B - K	769	0	H - D	769	0
K - C	111	- 1056	D - G	205	- 3594

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

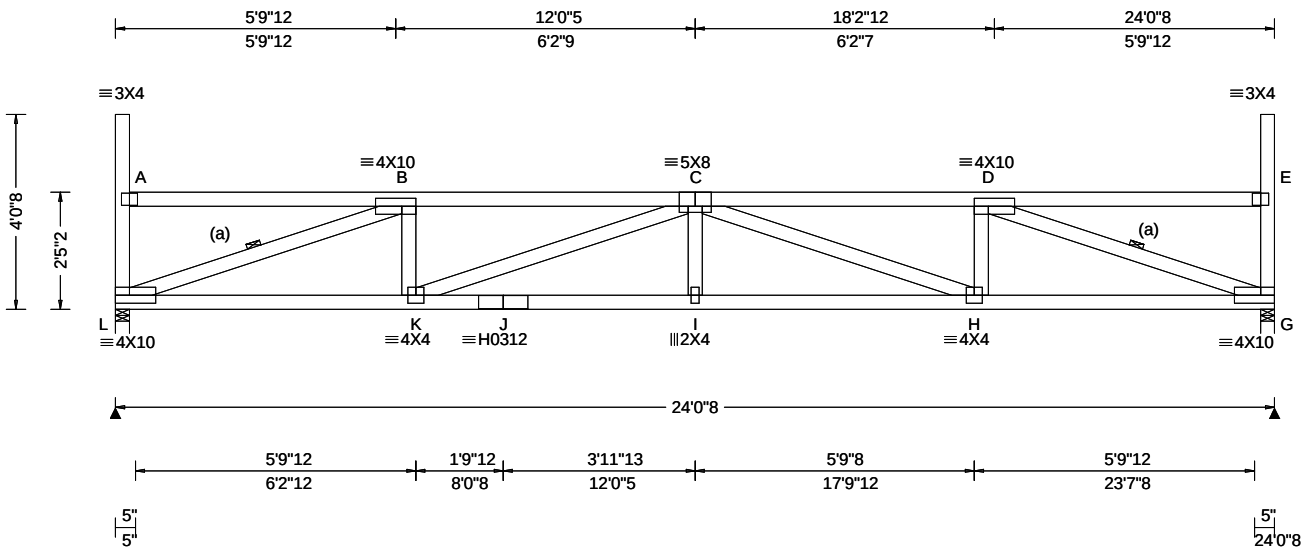
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37886 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T41A	Cust: R 9316 JRef:1XfQ93160003 T201 DrwNo: 142.22.1748.35043 / FK 05/22/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.09 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.274 I	999	360
VERT(CL):	0.510 I	565	240
HORZ(LL):	0.065 G	-	-
HORZ(TL):	0.121 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.568
Max BC CSI: 0.637
Max Web CSI: 0.761

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/129
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	195	- 3531	C - D	196	- 3530

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3427	- 320	I - H	4522	- 286
K - J	4522	- 286	H - G	3426	- 197
J - I	4522	- 286			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	219	- 3595	C - H	118	- 1058
B - K	769	- 1	H - D	769	0
K - C	120	- 1056	D - G	218	- 3594

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

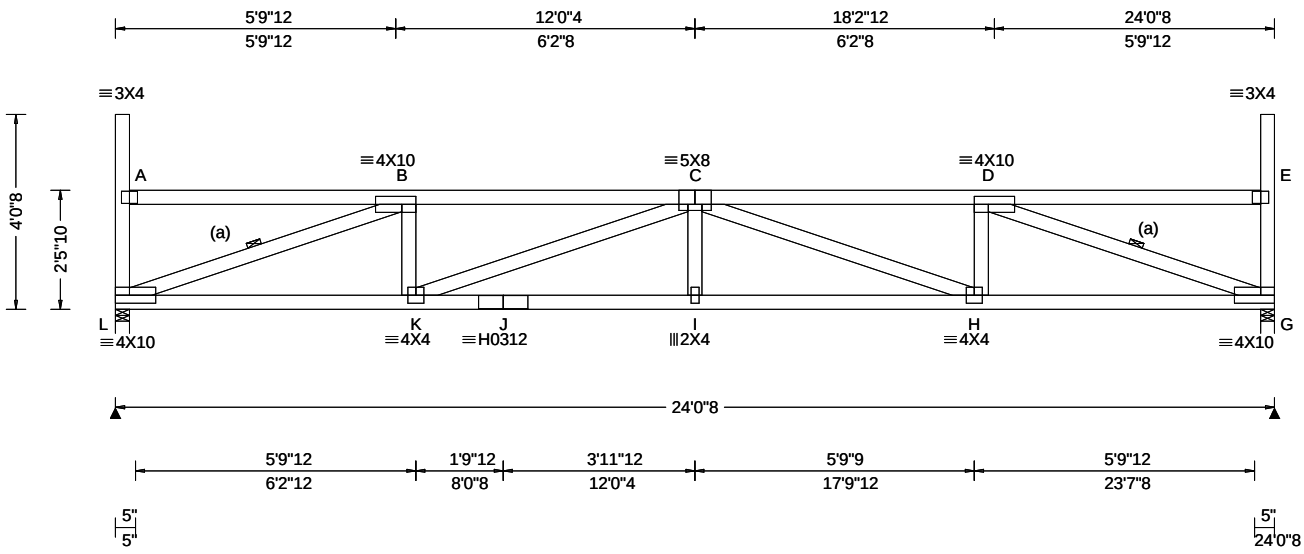
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37887 FLAT	Ply: 1	**Job Number:** JB-220700	Cust: R 9316 JRef:1XfQ93160003 T164
FROM:	Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1748.37777
		Truss Label: T42	/ FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.47 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.265 I	999	360
VERT(CL):	0.492 I	586	240
HORZ(LL):	0.064 G	-	-
HORZ(TL):	0.119 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.553
Max BC CSI: 0.631
Max Web CSI: 0.751

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/81	/127
G	1542	/-	/-	/732	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	179	-3465	C - D	179	-3464

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3363	-294	I - H	4437	-265
K - J	4437	-265	H - G	3362	-182
J - I	4437	-265			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	202	-3536	C - H	108	-1039
B - K	769	0	H - D	769	0
K - C	109	-1038	D - G	201	-3535

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.57	21.42	5.16
23.75	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

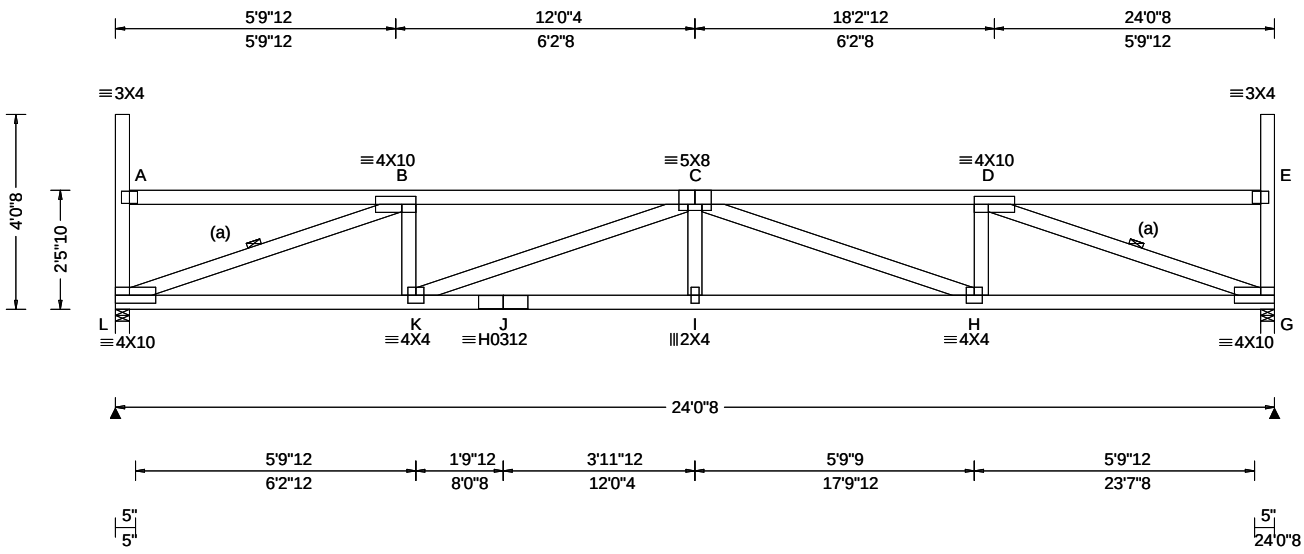
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37888 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T42A	Cust: R 9316 JRef:1XfQ93160003 T195 DrwNo: 142.22.1748.40637 / FK 05/22/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.14 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.265 I	999	360
VERT(CL):	0.492 I	586	240
HORZ(LL):	0.064 G	-	-
HORZ(TL):	0.119 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.553
Max BC CSI: 0.631
Max Web CSI: 0.751

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/128
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	192	- 3465	C - D	193	- 3464

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3363	- 315	I - H	4437	- 282
K - J	4437	- 282	H - G	3362	- 195
J - I	4437	- 282			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	215	- 3536	C - H	116	- 1039
B - K	769	0	H - D	769	0
K - C	117	- 1038	D - G	215	- 3535

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.57	21.42	5.16
23.75	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

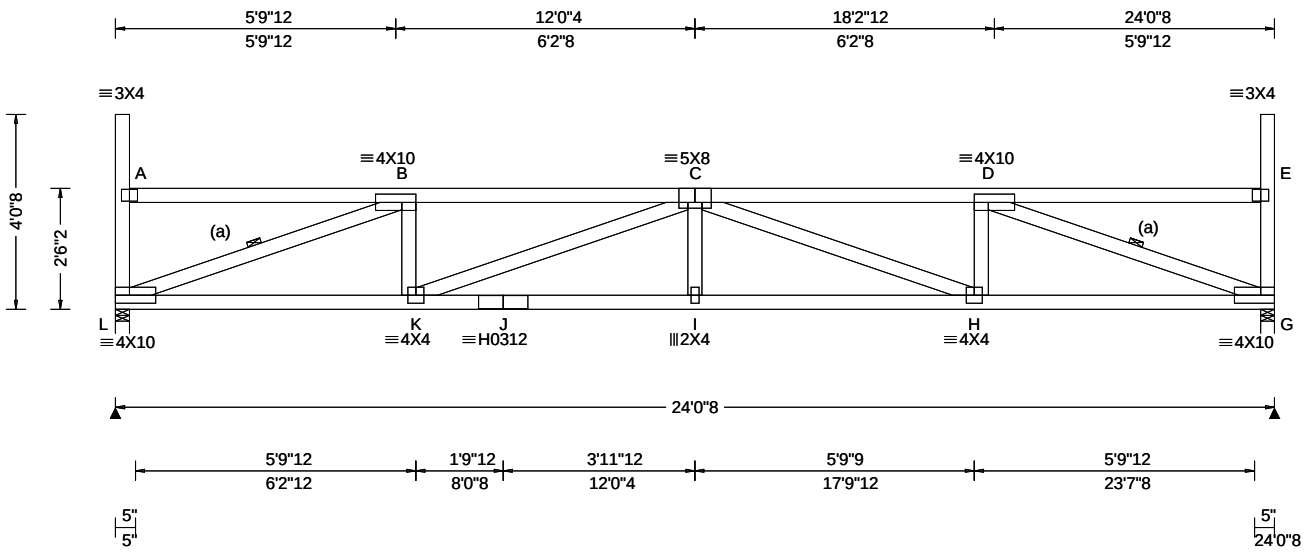
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37889 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T43	Cust: R 9316 JRef:1XfQ93160003 T161 DrwNo: 142.22.1748.43550 / FK 05/22/2022	



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.51 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.255	I	999	360
VERT(CL): 0.475	I	607	240
HORZ(LL): 0.063	G	-	-
HORZ(TL): 0.116	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.540
Max BC CSI: 0.625
Max Web CSI: 0.741

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/81	/126
G	1542	/-	/-	/731	/81	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	176	-3401	C - D	177	-3400

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3301	-289	I - H	4354	-261
K - J	4354	-261	H - G	3300	-180
J - I	4354	-261			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	199	-3479	C - H	105	-1022
B - K	769	0	H - D	769	0
K - C	106	-1021	D - G	198	-3478

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.53	20.04	4.83
23.75	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

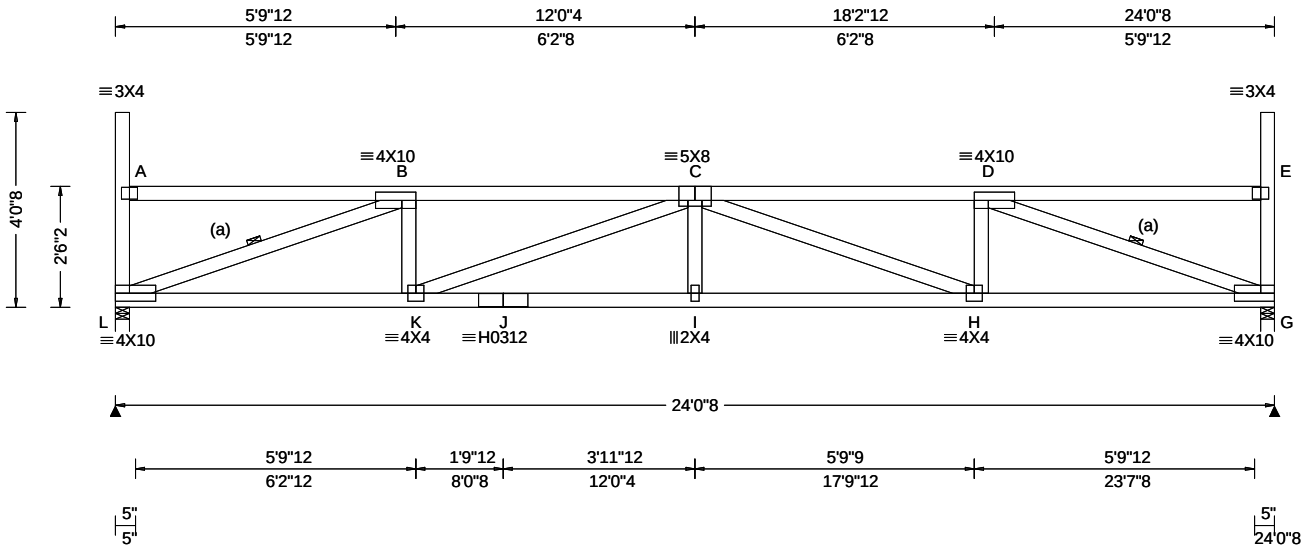
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37890 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T43A	Cust: R 9316 JRef:1XfQ93160003 T198 DrwNo: 142.22.1748.46480 / FK 05/22/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00
Load Duration:	1.15
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.18 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.255 I	999	360
VERT(CL):	0.475 I	607	240
HORZ(LL):	0.063 G	-	-
HORZ(TL):	0.116 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.540
Max BC CSI: 0.625
Max Web CSI: 0.741

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/127
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	211	-3401	C - D	211	-3400

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3301	-310	I - H	4354	-278
K - J	4354	-278	H - G	3300	-192
J - I	4354	-278			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	212	-3479	C - H	113	-1022
B - K	769	0	H - D	769	0
K - C	114	-1021	D - G	212	-3478

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.53	20.04	4.83
23.75	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

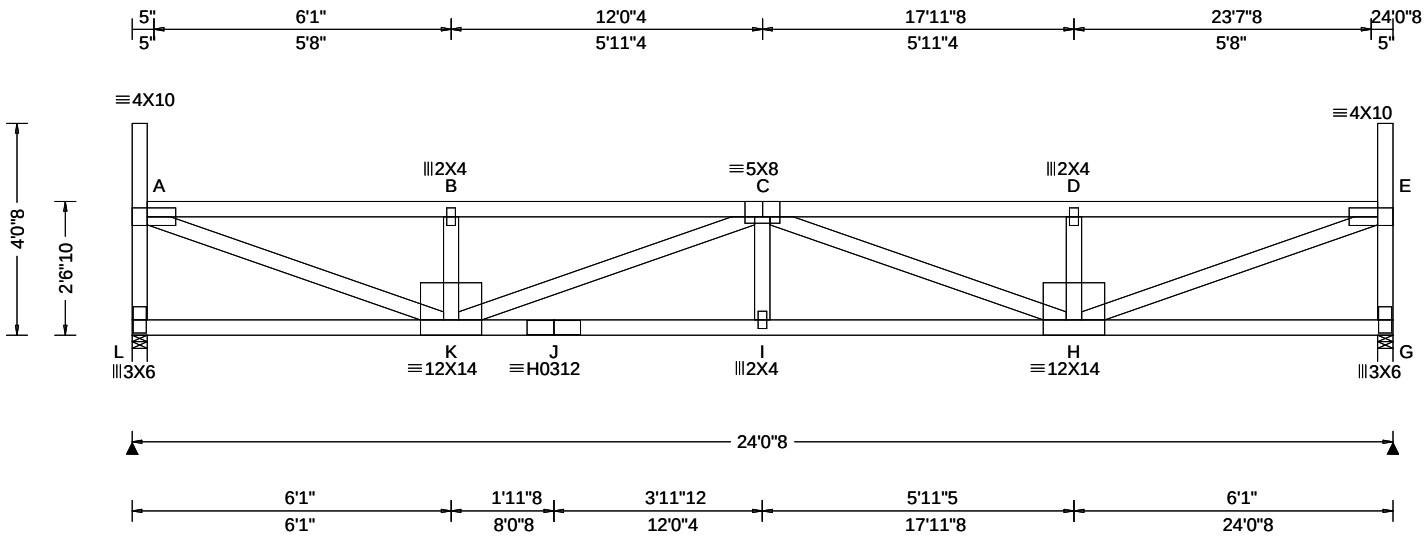
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37891 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T44	Cust: R 9316 JRef:1XfQ93160003 T143 DrwNo: 142.22.1748.49320 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.55 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.260	I	999	360
VERT(CL): 0.482	I	597	240
HORZ(LL): 0.048	A	-	-
HORZ(TL): 0.089	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.693
Max BC CSI: 0.608
Max Web CSI: 0.838

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/82	/125
G	1542	/-	/-	/731	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	178	- 3318	C - D	177	- 3312
B - C	177	- 3313	D - E	178	- 3317

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4276	- 256	I - H	4276	- 256
J - I	4276	- 256			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	96	- 1385	C - H	99	- 1032
A - K	3417	- 196	D - H	77	- 376
B - K	77	- 376	H - E	3416	- 197
K - C	102	- 1030	E - G	96	- 1385

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.49	18.65	4.50
23.75	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

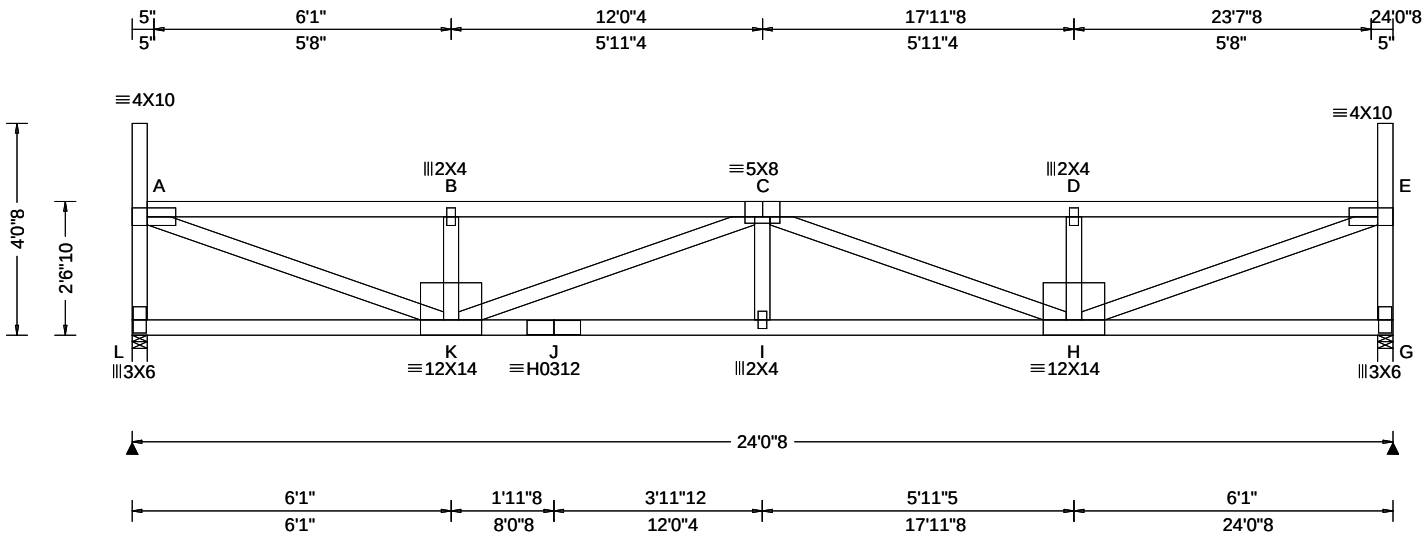
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37892 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T44A	Cust: R 9316 JRef:1XfQ93160003 T202 DrwNo: 142.22.1748.52203 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.22 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.260 I	999	360
VERT(CL):	0.482 I	597	240
HORZ(LL):	0.048 A	-	-
HORZ(TL):	0.089 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.693
Max BC CSI: 0.608
Max Web CSI: 0.838

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/732	/87	/126
G	1542	/-	/-	/732	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	211	-3318	C - D	211	-3312
B - C	211	-3313	D - E	211	-3317

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4276	-272	I - H	4276	-272
J - I	4276	-272			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	102	-1385	C - H	107	-1032
A - K	3417	-209	H - E	3416	-210
B - K	79	-376	D - H	80	-376
K - C	110	-1030	E - G	102	-1385

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.49	18.65	4.50
23.75	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

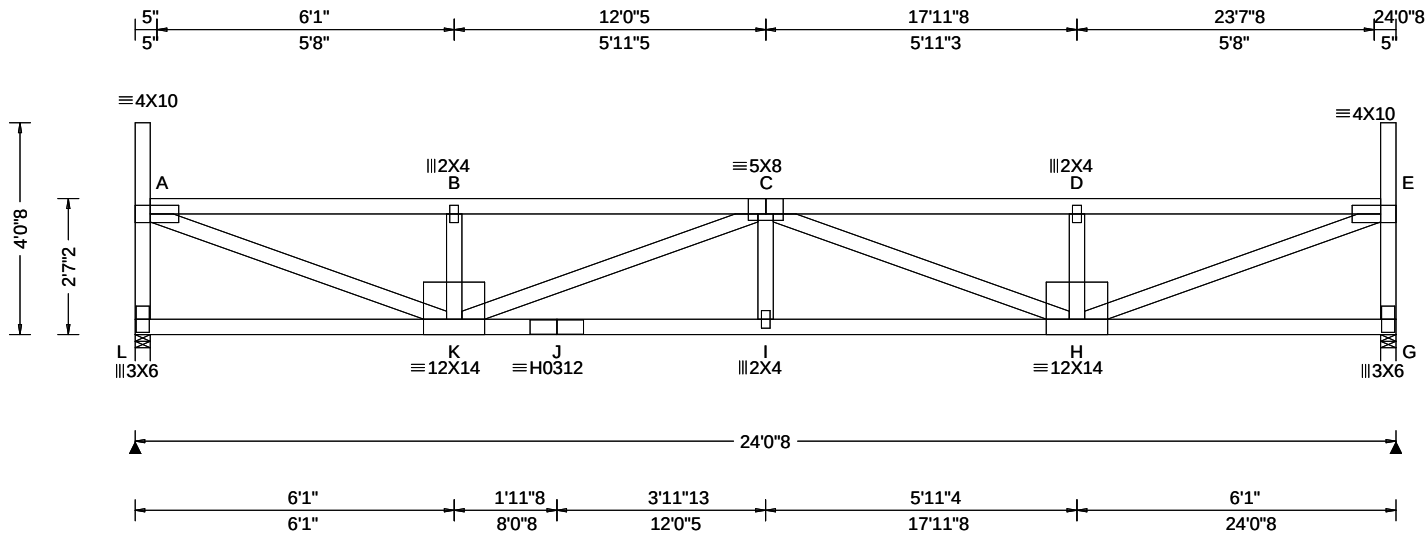
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37893 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T45	Cust: R 9316 JRef:1XfQ93160003 T153 DrwNo: 142.22.1748.54930 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.59 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.251	I	999	360
VERT(CL): 0.466	I	618	240
HORZ(LL): 0.047	A	-	-
HORZ(TL): 0.088	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.676
Max BC CSI: 0.602
Max Web CSI: 0.825

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/82	/124
G	1542	/-	/-	/731	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	175	- 3260	C - D	174	- 3253
B - C	175	- 3255	D - E	175	- 3258

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4200	- 253	I - H	4200	- 253
J - I	4200	- 253			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	96	- 1385	C - H	97	- 1015
A - K	3364	- 193	D - H	77	- 378
B - K	77	- 378	H - E	3362	- 194
K - C	100	- 1013	E - G	96	- 1385

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.45	17.27	4.16
23.75	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

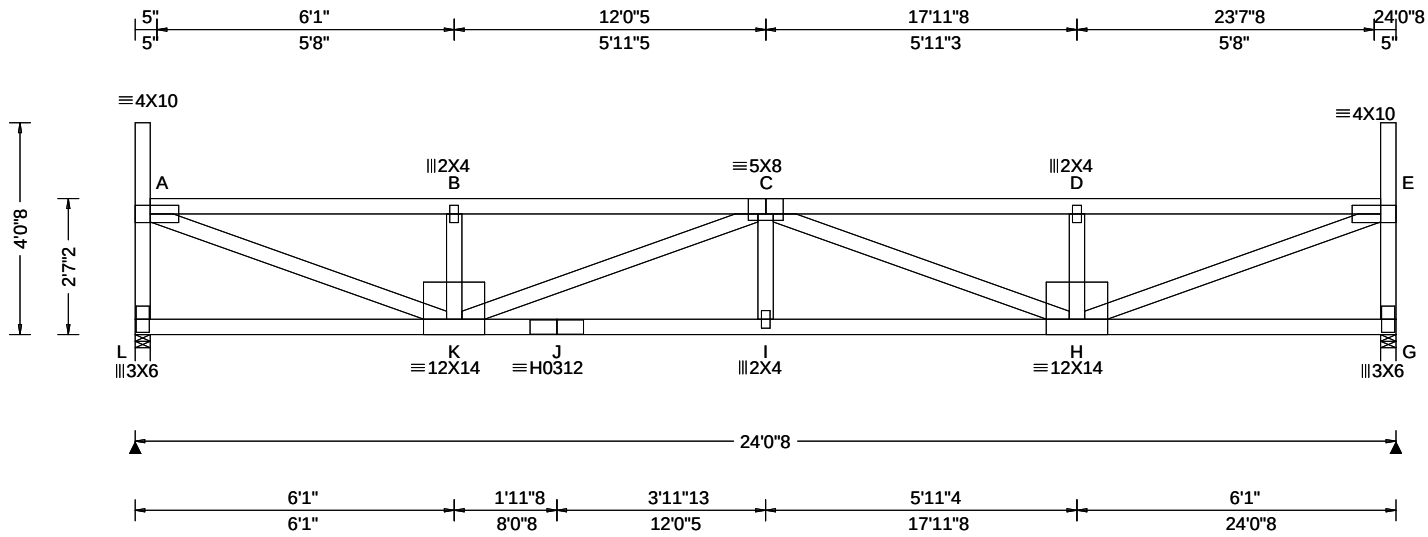
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37894 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T45A	Cust: R 9316 JRef:1XfQ93160003 T196 DrwNo: 142.22.1748.57717 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.26 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.251	I	999	360
VERT(CL): 0.466	I	618	240
HORZ(LL): 0.047	A	-	-
HORZ(TL): 0.088	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.676
Max BC CSI: 0.602
Max Web CSI: 0.825

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/87	/125
G	1542	/-	/-	/731	/87	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	208	- 3260	C - D	207	- 3253
B - C	208	- 3255	D - E	208	- 3258

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4200	- 269	I - H	4200	- 269
J - I	4200	- 269			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	102	- 1385	C - H	105	- 1015
A - K	3364	- 206	D - H	80	- 378
B - K	80	- 378	H - E	3362	- 207
K - C	108	- 1013	E - G	102	- 1385

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.45	17.27	4.16
23.75	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

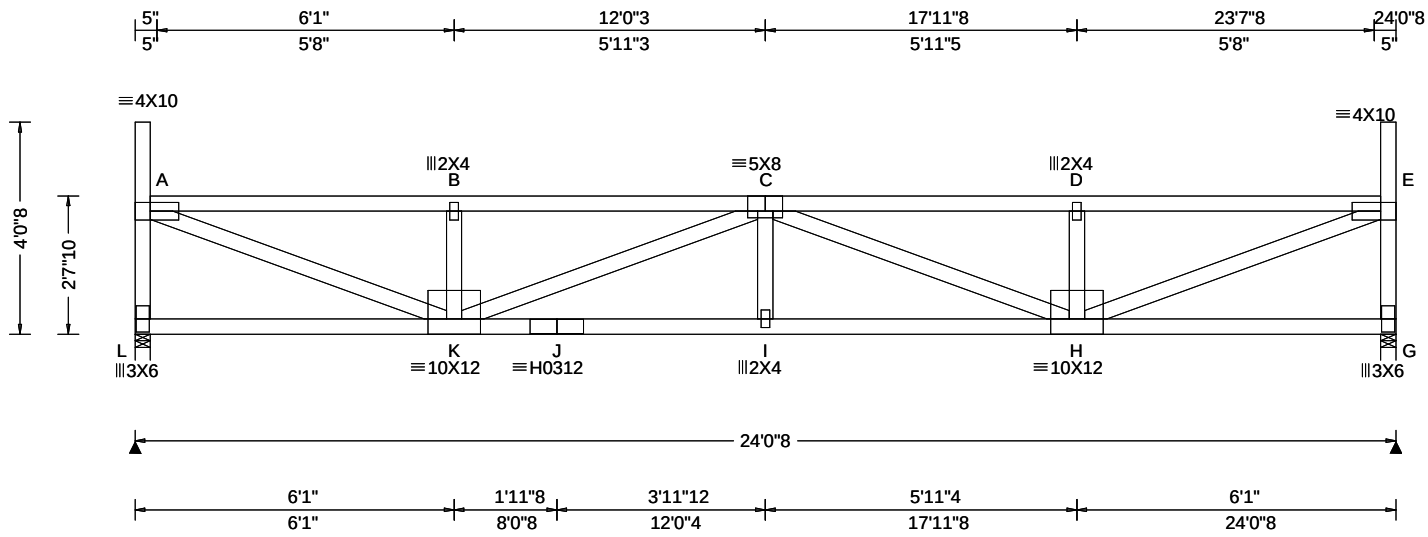
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37895 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T46	Cust: R 9316 JRef:1XfQ93160003 T148 DrwNo: 142.22.1749.00387 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.64 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.243	I	999	360
VERT(CL): 0.451	I	639	240
HORZ(LL): 0.046	A	-	-
HORZ(TL): 0.086	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.663
Max BC CSI: 0.597
Max Web CSI: 0.813

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/82	/122
G	1542	/-	/-	/731	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	173	- 3203	C - D	172	- 3197
B - C	172	- 3198	D - E	172	- 3202

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4125	- 249	I - H	4125	- 249
J - I	4125	- 249			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	96	- 1385	C - H	95	- 997
A - K	3311	- 190	H - E	3311	- 191
B - K	77	- 380	D - H	77	- 380
K - C	97	- 997	E - G	96	- 1385

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.41	15.89	3.83
23.75	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

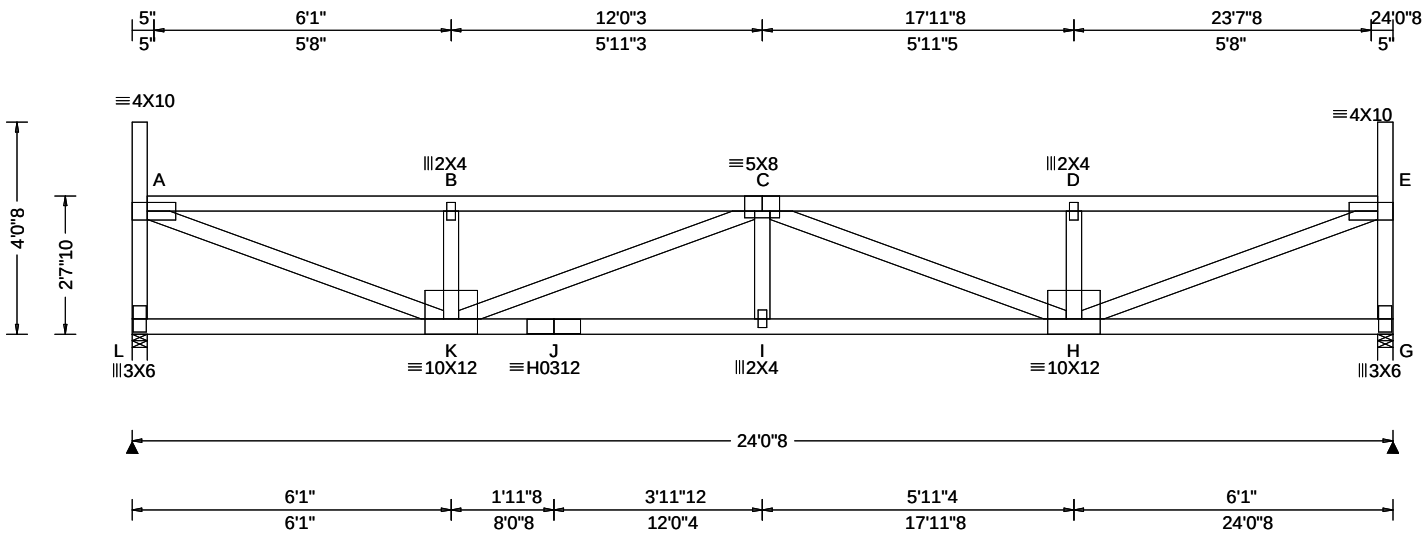
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37896 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T46A	Cust: R 9316 JRef:1XfQ93160003 T207 DrwNo: 142.22.1749.03270 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.30 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.243	I	999	360
VERT(CL): 0.451	I	639	240
HORZ(LL): 0.046	A	-	-
HORZ(TL): 0.086	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.663
Max BC CSI: 0.597
Max Web CSI: 0.813

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/88	/123
G	1542	/-	/-	/731	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	205	- 3203	C - D	204	- 3197
B - C	204	- 3198	D - E	205	- 3202

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	4125	- 265	I - H	4125	- 265
J - I	4125	- 265			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - A	102	- 1385	C - H	103	- 997
A - K	3311	- 203	H - E	3311	- 203
B - K	80	- 380	D - H	80	- 380
K - C	105	- 997	E - G	102	- 1385

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.41	15.89	3.83
23.75	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

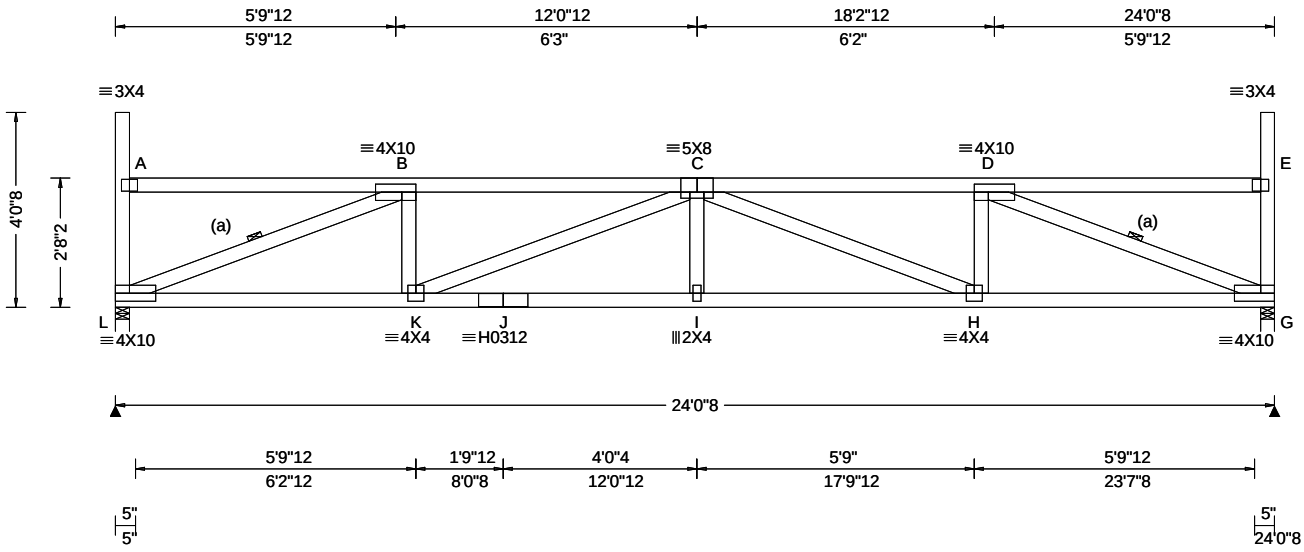
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37897 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T47	Cust: R 9316 JRef:1XfQ93160003 T163 DrwNo: 142.22.1749.06050 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.223 I	999	360
VERT(CL):	0.415 I	694	240
HORZ(LL):	0.058 G	-	-
HORZ(TL):	0.108 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.516
Max BC CSI: 0.604
Max Web CSI: 0.706

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/82	/121
G	1542	/-	/-	/731	/82	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	166	- 3169	C - D	166	- 3166

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3076	- 272	I - H	4053	- 248
K - J	4053	- 248	H - G	3073	- 173
J - I	4053	- 248			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	188	- 3274	C - H	96	- 960
B - K	768	0	H - D	770	0
K - C	98	- 955	D - G	187	- 3270

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.22" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

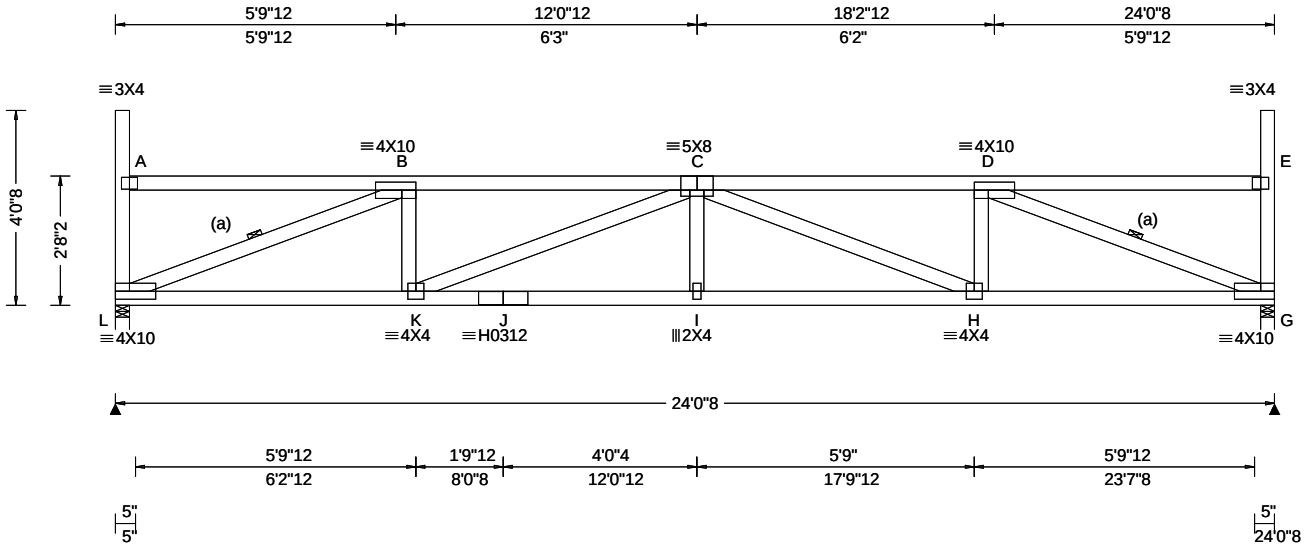
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37898 FLAT FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T47A	Cust: R 9316 JRef:1XfQ93160003 T203 DrwNo: 142.22.1749.08757 / FK 05/22/2022	



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.34 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.223 I	999	360
VERT(CL):	0.415 I	694	240
HORZ(LL):	0.058 G	-	-
HORZ(TL):	0.108 G	-	-

Creep Factor: 2.0
Max TC CSI: 0.516
Max BC CSI: 0.604
Max Web CSI: 0.706

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1542	/-	/-	/731	/88	/122
G	1542	/-	/-	/731	/88	/-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 2.0 (Truss)
G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	199	- 3169	C - D	199	- 3166

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
L - K	3076	- 291	I - H	4053	- 264
K - J	4053	- 264	H - G	3073	- 185
J - I	4053	- 264			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	200	- 3274	C - H	104	- 960
B - K	768	0	H - D	770	0
K - C	105	- 955	D - G	200	- 3270

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.22" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

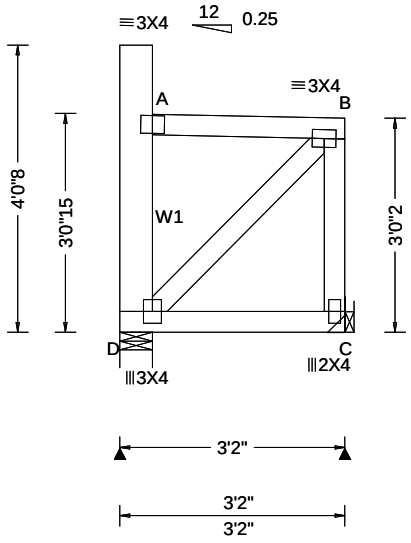
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37900 MONO FROM:	Ply: 1 Qty: 5	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48A	Cust: R 9316 JRef:1XfQ93160003 T197 DrwNo: 142.22.1749.11213 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.71 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.001 B 999 240 HORZ(LL): 0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.139 Max BC CSI: 0.123 Max Web CSI: 0.033 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	176	/-	/-	/111	/53	/78
C	204	/-	/-	/150	/47	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

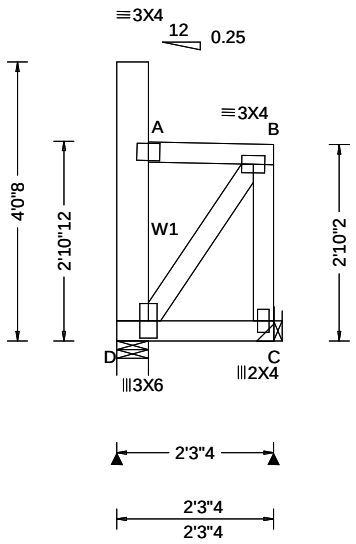
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37901 MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T49	Cust: R 9316 JRef:1XfQ93160003 T230 DrwNo: 142.22.1749.13873 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.87 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.065
Max BC CSI: 0.063
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	119	/-	/-	/98	/77	/80
C	144	/-	/-	/147	/60	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

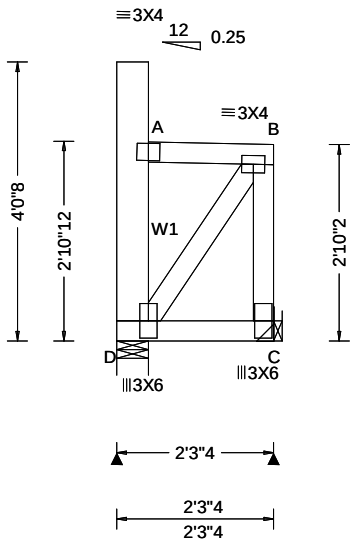
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37902 MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T49A	Cust: R 9316 JRef:1XfQ93160003 T217 DrwNo: 142.22.1749.16527 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.065
Max BC CSI: 0.063
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	119	/-	/-	/99	/78	/80
C	144	/-	/-	/147	/61	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Truss)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

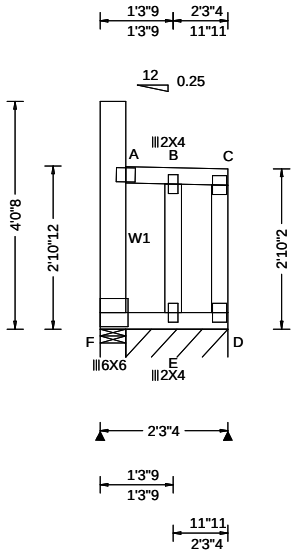
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37903 MONO FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T50	Cust: R 9316 JRef:1XfQ93160003 T128 DrwNo: 142.22.1749.19027 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.006 A 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 A 999 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.111 B - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.128 B - -
NCBCLL: 0.00	Mean Height: 21.87 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.110
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.254
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.115
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: not in 14.50 ft	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	36	/-8	/-	/96	/138	/80
D*	139	/-	/-	/141	/57	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 21.7 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

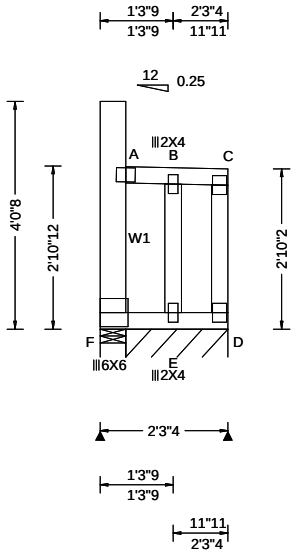
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37904 MONO FROM:	Ply: 1 Qty: 3	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T50A	Cust: R 9316 JRef:1XfQ93160003 T138 DrwNo: 142.22.1749.21637 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 14.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	A	999	360
VERT(CL): 0.009	A	999	240
HORZ(LL): 0.124	B	-	-
HORZ(TL): 0.141	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.111
Max BC CSI: 0.255
Max Web CSI: 0.115

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
F	36	/-8	/-	/118	/150	/92
D*	139	/-	/-	/148	/70	/-

Wind reactions based on MWFRS
F Brg Wid = 5.5 Min Req = 1.5 (Truss)
D Brg Wid = 21.7 Min Req = -
Bearings F & F are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

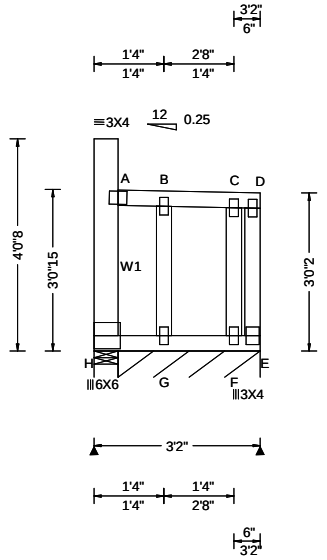
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37905 GABL FROM:	Ply: 1 Qty: 4	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T51A	Cust: R 9316 JRef:1XfQ93160003 T169 DrwNo: 142.22.1749.24320 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.71 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	A	999	360
VERT(CL): 0.010	A	999	240
HORZ(LL): 0.122	C	-	-
HORZ(TL): 0.143	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.105
Max BC CSI: 0.293
Max Web CSI: 0.131

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	47	/-	/-	/123	/131	/90
E*	123	/-	/-	/106	/44	/-

Wind reactions based on MWFRS
H Brg Wid = 5.5 Min Req = 1.5 (Truss)
E Brg Wid = 32.5 Min Req = -
Bearings H & H are a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

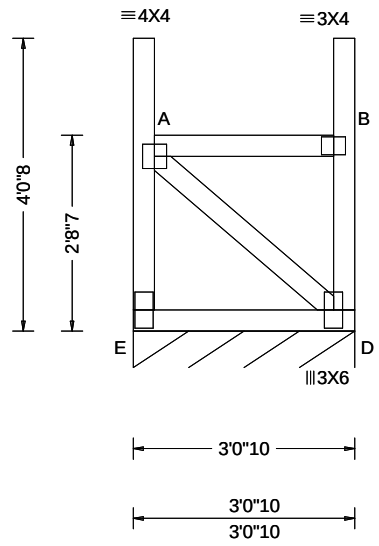
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37906 GABL FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T52	Cust: R 9316 JRef:1XfQ93160003 T216 DrwNo: 142.22.1749.27440 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.000	A	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): -0.001	B	-	-
HORZ(TL): 0.002	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.142
Max BC CSI: 0.128
Max Web CSI: 0.221

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	123	/-	/-	/55	/4	/39

Wind reactions based on MWFRS
D Brg Wid = 36.6 Min Req = -
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
A - D	382	-387

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.00	1.34	13.63	2.47
2.76	0.00	20.00	1.34	13.63	2.47

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

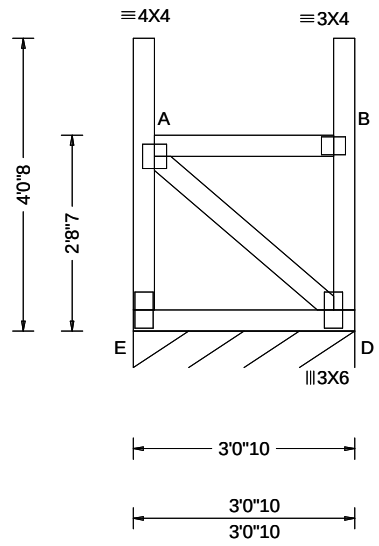
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37907 GABL FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T52A	Cust: R 9316 JRef:1XfQ93160003 T132 DrwNo: 142.22.1749.29880 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.000	A	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): -0.001	B	-	-
HORZ(TL): 0.002	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.142
Max BC CSI: 0.128
Max Web CSI: 0.223

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	123	/-	/-	/55	/4	/40

Wind reactions based on MWFRS
D Brg Wid = 36.6 Min Req = -
Bearing E is a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
A - D	385	-389

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.00	1.34	13.63	2.47
2.76	0.00	20.00	1.34	13.63	2.47

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

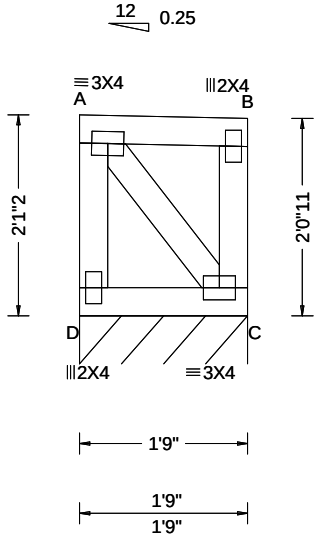
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37908 MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE01	Cust: R 9316 JRef:1XfQ93160003 T188 DrwNo: 142.22.1749.32510 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.08 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.046
Max BC CSI: 0.039
Max Web CSI: 0.021

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 21.0 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

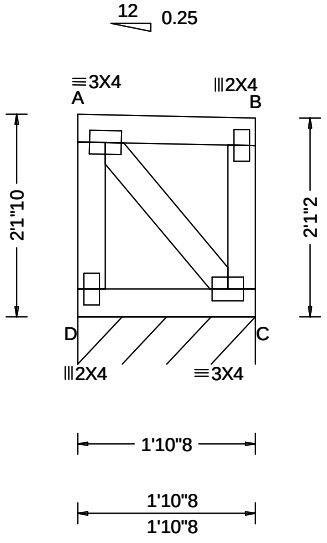
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37909 MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE02	Cust: R 9316 JRef:1XfQ93160003 T189 DrwNo: 142.22.1749.35263 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.12 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.022

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/18

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

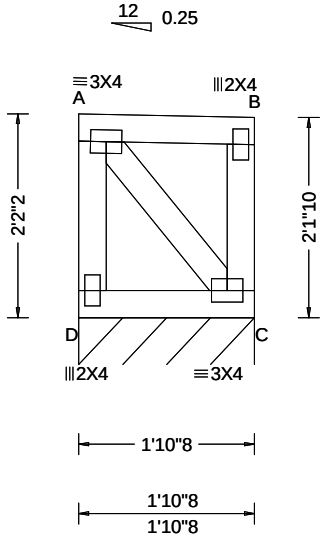
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37910 MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE03	Cust: R 9316 JRef:1XfQ93160003 T190 DrwNo: 142.22.1749.38103 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.000 B - -
NCBCLL: 0.00	Mean Height: 21.16 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.046
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.023
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

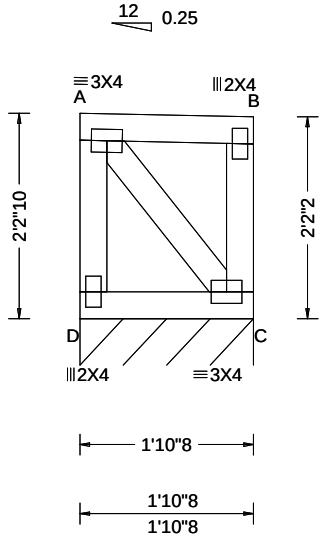
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37911 MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE04	Cust: R 9316 JRef:1XfQ93160003 T192 DrwNo: 142.22.1749.40890 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.000 B - -
NCBCLL: 0.00	Mean Height: 21.20 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.046
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.024
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/19

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

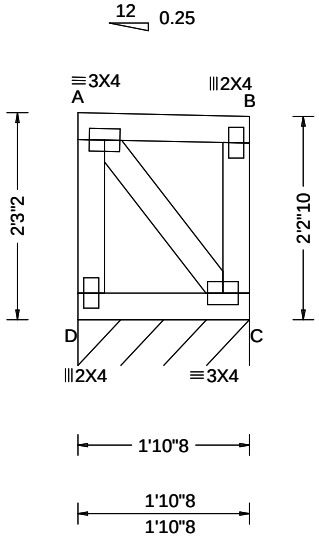
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37912 MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE05	Cust: R 9316 JRef:1XfQ93160003 T215 DrwNo: 142.22.1749.43713 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.24 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.025 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

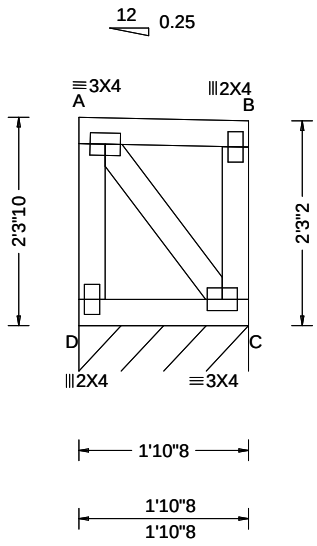
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37913 MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE06	Cust: R 9316 JRef:1XfQ93160003 T219 DrwNo: 142.22.1749.46627 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.28 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.026

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/20

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

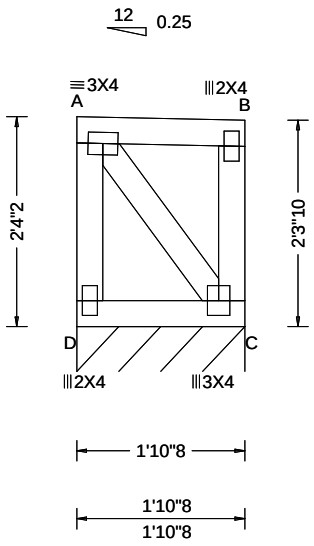
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37914 MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE07	Cust: R 9316 JRef:1XfQ93160003 T220 DrwNo: 142.22.1749.49447 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.000 B - -
NCBCLL: 0.00	Mean Height: 21.32 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.046
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.027
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

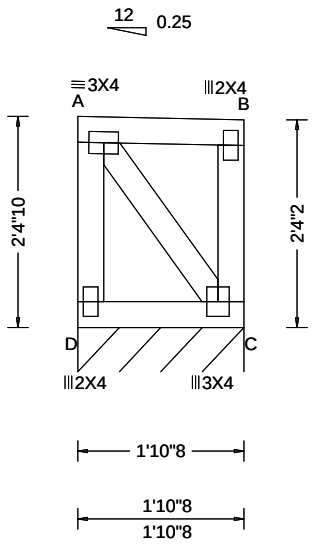
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37915 MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE08	Cust: R 9316 JRef:1XfQ93160003 T221 DrwNo: 142.22.1749.52087 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.028

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/21

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

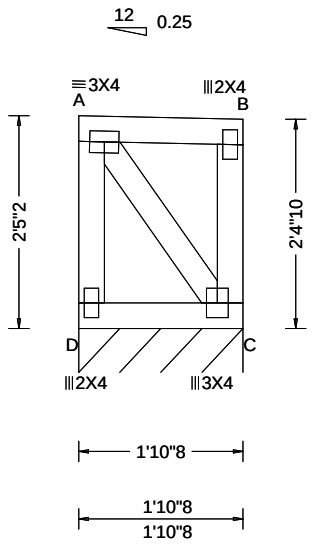
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37916 MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE09	Cust: R 9316 JRef:1XfQ93160003 T222 DrwNo: 142.22.1749.54590 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.41 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.029

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/5	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

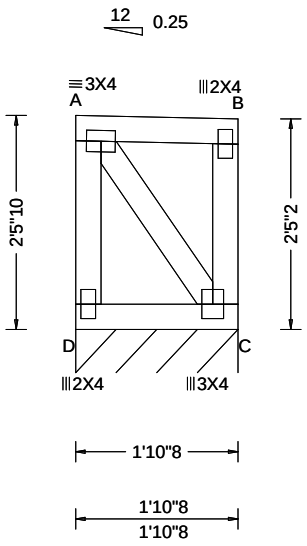
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37917 MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE10	Cust: R 9316 JRef:1XfQ93160003 T223 DrwNo: 142.22.1749.57423 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.45 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.031

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

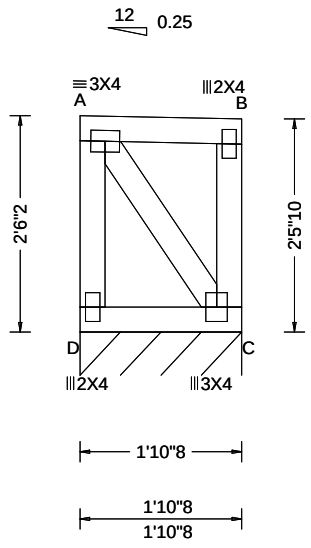
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37918 MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE11	Cust: R 9316 JRef:1XfQ93160003 T224 DrwNo: 142.22.1750.49620 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.49 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.032

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/22

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

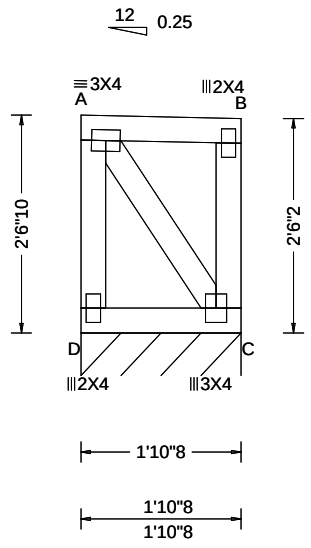
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37919 MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE12	Cust: R 9316 JRef:1XfQ93160003 T225 DrwNo: 142.22.1750.52540 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.033

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

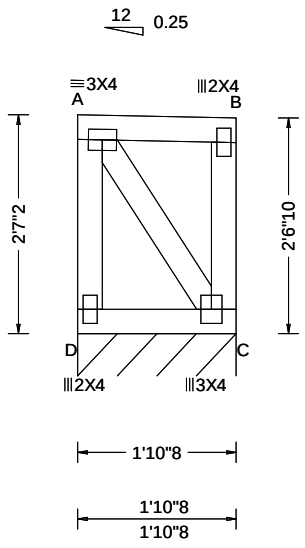
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37920 MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE13	Cust: R 9316 JRef:1XfQ93160003 T226 DrwNo: 142.22.1750.55223 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.57 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.035

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/23

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

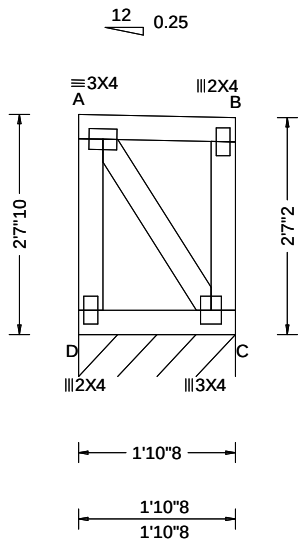
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37921 MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE14	Cust: R 9316 JRef:1XfQ93160003 T227 DrwNo: 142.22.1750.58110 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.62 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.036

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

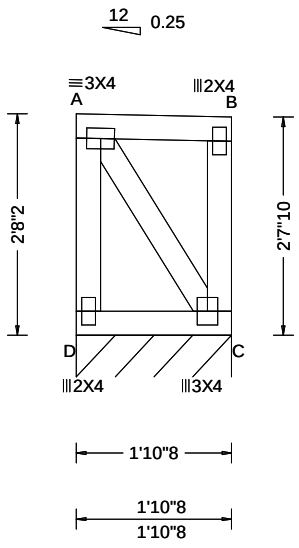
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37922 MONO FROM:	Ply: 1 Qty: 12	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE15	Cust: R 9316 JRef:1XfQ93160003 T228 DrwNo: 142.22.1751.00650 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.66 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.000	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.037

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/24

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

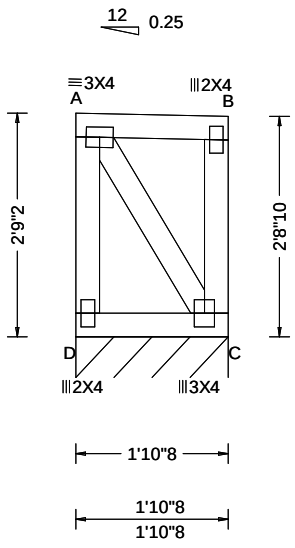
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37923 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE16	Cust: R 9316 JRef:1XfQ93160003 T251 DrwNo: 142.22.1751.06753 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.74 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.040 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

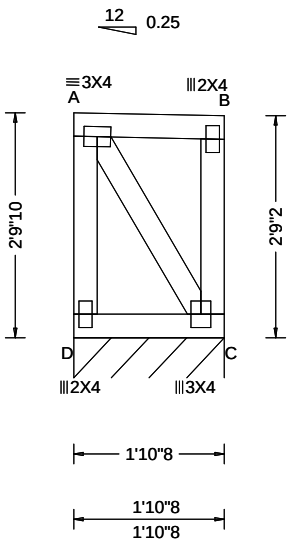
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37924 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE17	Cust: R 9316 JRef:1XfQ93160003 T252 DrwNo: 142.22.1751.09360 / FK 05/22/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.78 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

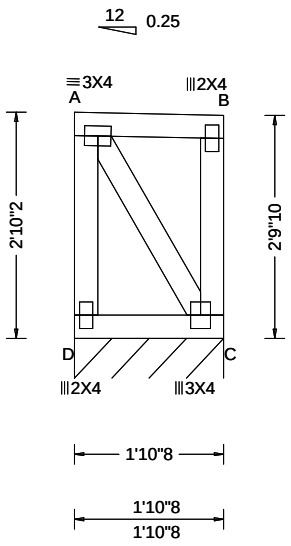
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37925 MONO FROM:	Ply: 1 Qty: 8	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE18	Cust: R 9316 JRef:1XfQ93160003 T253 DrwNo: 142.22.1751.12013 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.82 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.042

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/26

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

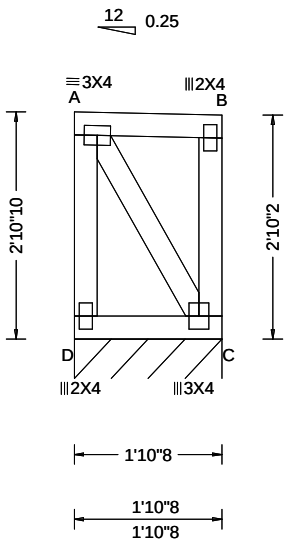
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37926 MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE19	Cust: R 9316 JRef:1XfQ93160003 T254 DrwNo: 142.22.1751.14700 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.53 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.044

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/27

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

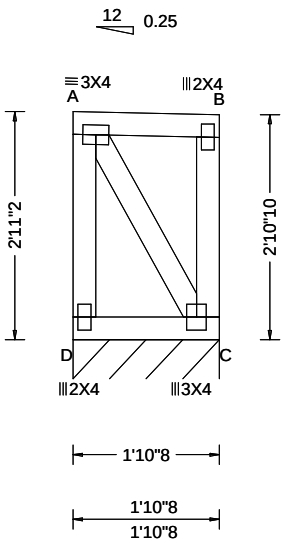
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37927 MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE20	Cust: R 9316 JRef:1XfQ93160003 T255 DrwNo: 142.22.1751.17440 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.046 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

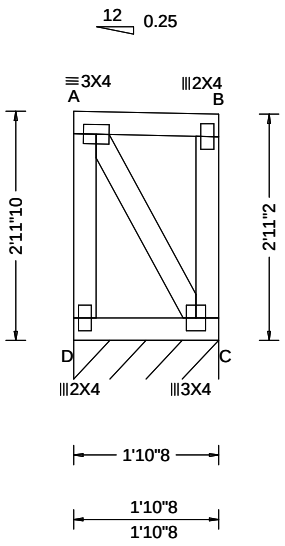
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37928 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE21	Cust: R 9316 JRef:1XfQ93160003 T256 DrwNo: 142.22.1751.20053 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.95 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	-0.000 A	999	360
VERT(CL):	0.000 A	999	240
HORZ(LL):	0.001 B	-	-
HORZ(TL):	0.001 B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.047

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/28

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

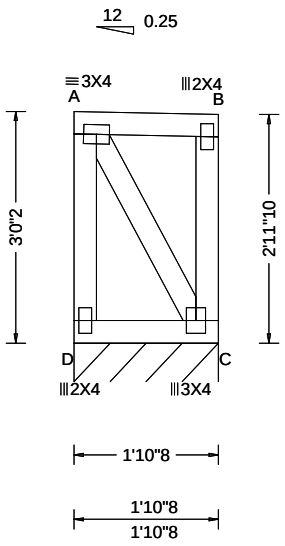
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37929 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE22	Cust: R 9316 JRef:1XfQ93160003 T257 DrwNo: 142.22.1751.22523 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.049 VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/29

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

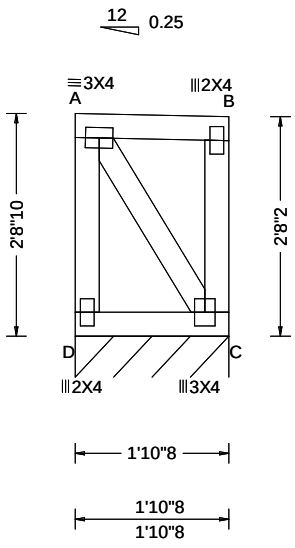
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37930 MONO FROM:	Ply: 1 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE23	Cust: R 9316 JRef:1XfQ93160003 T231 DrwNo: 142.22.1751.25090 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.37 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): 0.000	B	-	-
HORZ(TL): 0.001	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.038

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	130	/-	/-	/61	/6	/25

Wind reactions based on MWFRS
C Brg Wid = 22.5 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

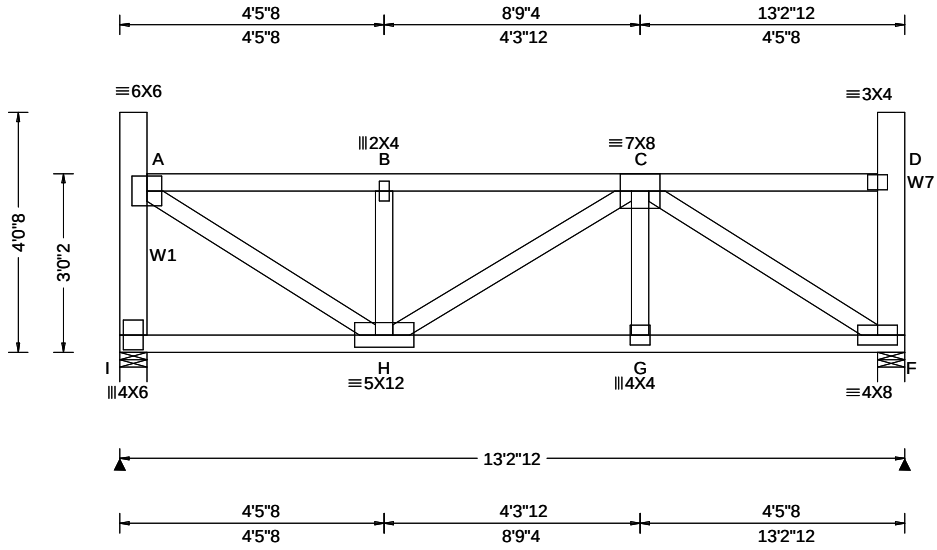
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37979 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T09A	Cust: R 9316 JRef:1XfQ93160003 T41 DrwNo: 142.22.1751.28050 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.039 B	999	360
VERT(CL):	0.072 B	999	240
HORZ(LL):	0.012 A	-	-
HORZ(TL):	0.022 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.314
Max BC CSI: 0.556
Max Web CSI: 0.840

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	1468	/-	/-	/-	/190	/-
F	1378	/-	/-	/-	/170	/-

Wind reactions based on MWFRS
I Brg Wid = 5.5 Min Req = 1.9 (Truss)
F Brg Wid = 5.5 Min Req = 1.7 (Truss)
Bearings I & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	231	- 1785	B - C	231	- 1780

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	1759	- 227	G - F	1759	- 227

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - A	145	- 1169	C - G	708	- 111
A - H	1936	- 251	C - F	259	- 2005

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 60 plf at 0.00 to 60 plf at 13.23
BC: 204 lb Conc. Load at 1.17, 3.17, 5.17,11.17
BC: 188 lb Conc. Load at 7.17, 9.17

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

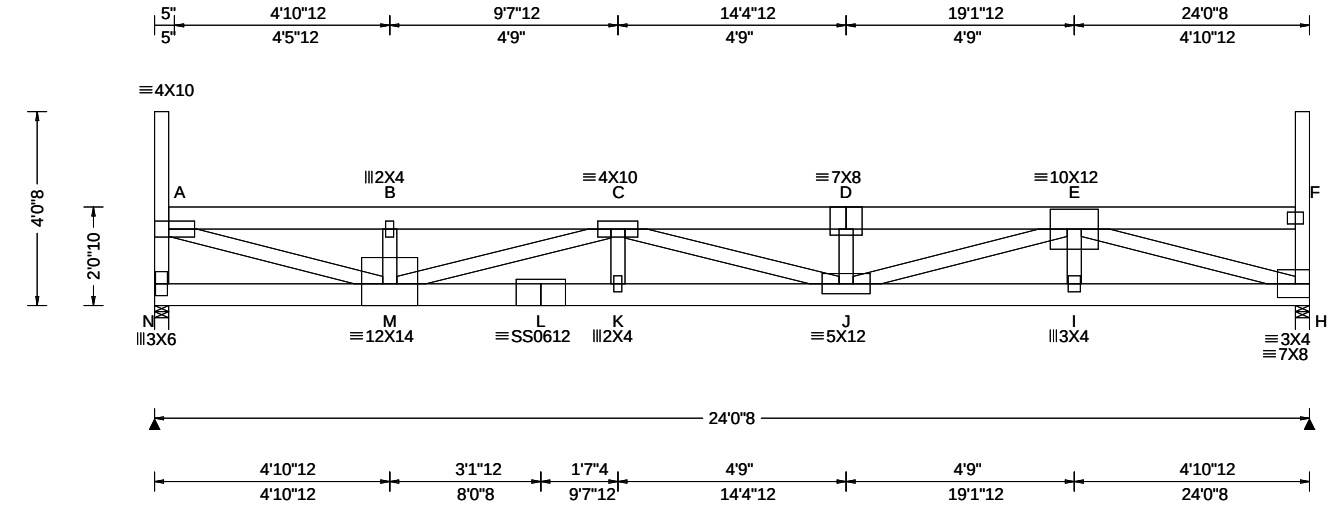
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37939 FLAT FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T32	Cust: R 9316 JRef:1XfQ93160003 T31 DrwNo: 142.22.1751.32310 / FK 05/22/2022

2 Complete Trusses Required



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.258 D 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.480 D 601 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.039 H - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.073 H - -
NCBCLL: 0.00	Mean Height: 21.05 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.228
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.646
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.893
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	2492	/-	/-	/-	/396	/-
H	2487	/-	/-	/-	/399	/-

Wind reactions based on MWFRS
N Brg Wid = 3.5 Min Req = 2.0 (Truss)
H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	520	- 3179	C - D	772	- 4652
B - C	519	- 3171	D - E	772	- 4652

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	4650	- 770	J - I	3161	- 522
L - K	4650	- 770	I - H	3161	- 522
K - J	4650	- 770			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	176	- 1116	J - E	1573	- 264
A - M	3202	- 525	E - H	543	- 3280
M - C	265	- 1560			

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 23.75
BC: From 60 plf at 0.00 to 60 plf at 24.04
BC: 173 lb Conc. Load at 1.98, 7.98, 9.98,11.98 13.98,15.98,19.98,21.98
BC: 170 lb Conc. Load at 3.98, 5.98,17.98

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.99	34.38	4.14
23.75	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

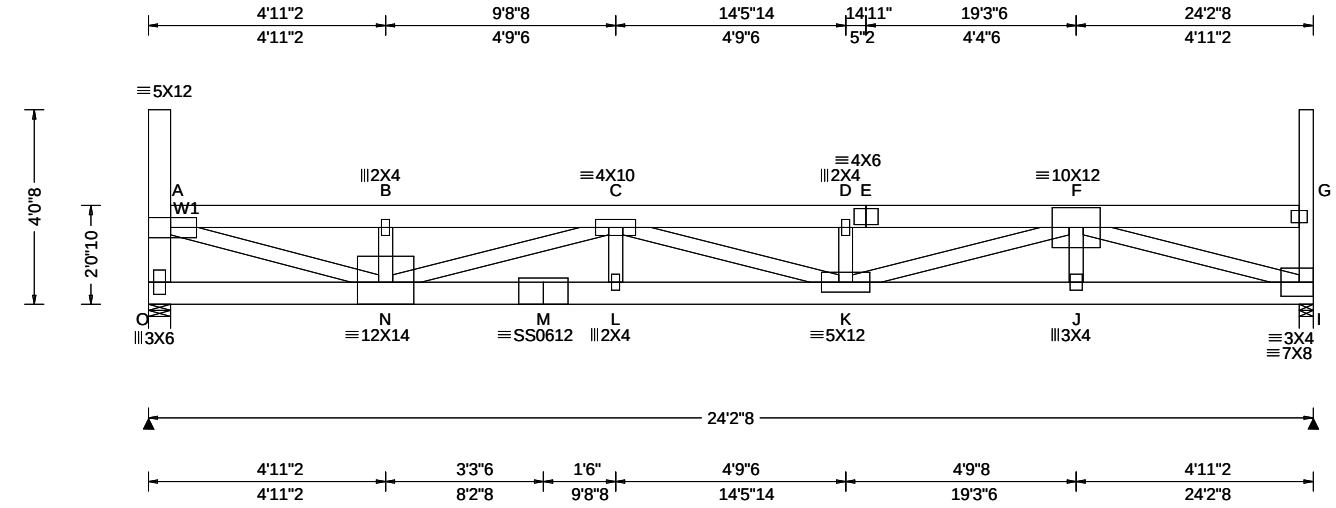
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37937 FLAT FROM:	Ply: 2 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T16	Cust: R 9316 JRef:1XfQ93160003 T24 DrwNo: 142.22.1751.35613 / FK 05/22/2022	

2 Complete Trusses Required



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.264 D 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.491 D 591 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.040 I - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.075 I - -
NCBCLL: 0.00	Mean Height: 21.05 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.233
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.654
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.908
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	2490	/-	/-	/-	/391	/-
I	2497	/-	/-	/-	/397	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 2.0 (Truss)
I Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	518	- 3212	D - E	775	- 4713
B - C	517	- 3204	E - F	775	- 4713
C - D	775	- 4713			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	4707	- 769	K - J	3200	- 525
M - L	4707	- 769	J - I	3200	- 525
L - K	4707	- 769			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	173	- 1111	K - F	1594	- 264
A - N	3175	- 513	F - I	545	- 3319
N - C	265	- 1585			

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 23.92
BC: From 60 plf at 0.00 to 60 plf at 24.21
BC: 173 lb Conc. Load at 2.06,10.06,12.06,14.06 16.06,20.06,22.06
BC: 170 lb Conc. Load at 4.06, 6.06, 8.06,18.06

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.99	34.38	4.14
23.92	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

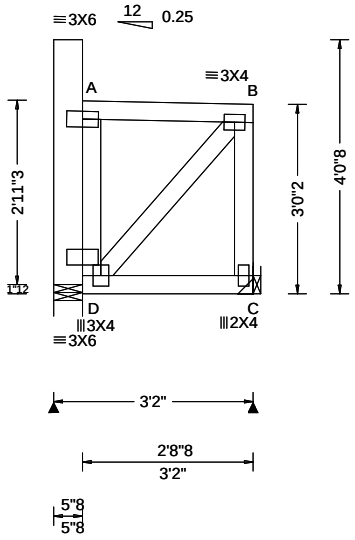
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37973 MONO FROM:	Ply: 1 Qty: 7	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T48	Cust: R 9316 JRef:1XfQ93160003 T40 DrwNo: 142.22.1751.48310 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.71 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	D	999	360
VERT(CL): 0.001	D	999	240
HORZ(LL): 0.002	A	-	-
HORZ(TL): 0.002	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.126
Max BC CSI: 0.103
Max Web CSI: 0.048

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	175	/-	/-	/107	/55	/81
C	188	/-	/-	/139	/46	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Lt Bearing Leg: 2x4 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11644.75" if used)

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

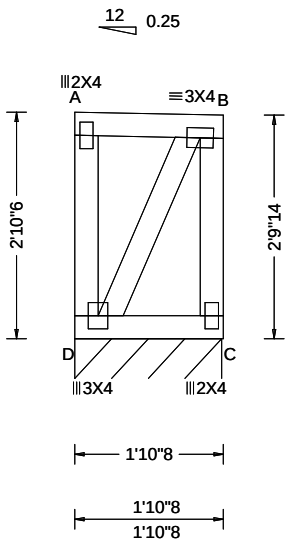
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37931 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** TGE24	Cust: R 9316 JRef:1XfQ93160003 T35 DrwNo: 142.22.1751.51530 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.66 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 29.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	A	999	360
VERT(CL): 0.000	A	999	240
HORZ(LL): -0.000	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.053
Max BC CSI: 0.046
Max Web CSI: 0.041

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	131	/-	/-	/61	/6	/27

Wind reactions based on MWFRS
D Brg Wid = 22.2 Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

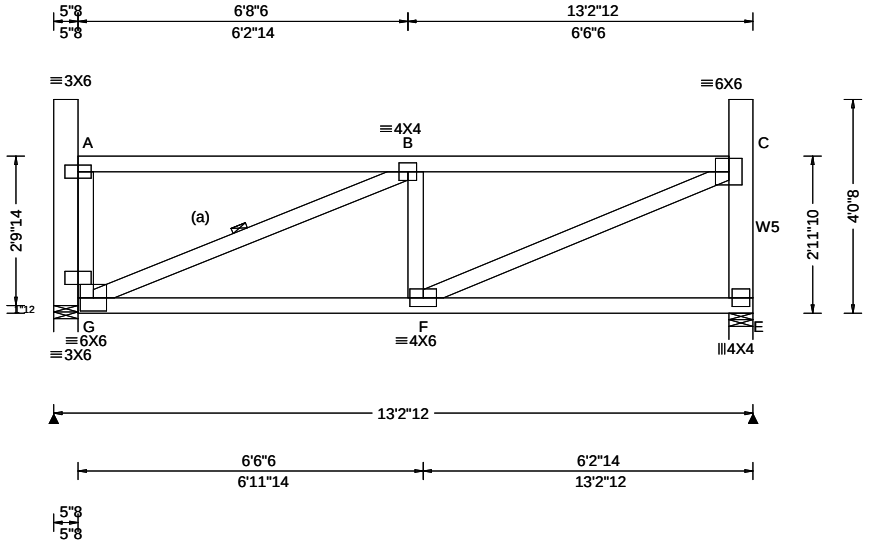
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37829 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T08	Cust: R 9316 JRef:1XfQ93160003 T36 DrwNo: 142.22.1751.54323 / FK 05/22/2022



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.036 B 999 360
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.067 B 999 240
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.007 E - -
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.013 E - -
NCBCLL: 0.00	Mean Height: 22.64 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.705
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.887
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.297
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
G	823	/-	/-	/395	/51	/79
E	805	/-	/-	/382	/48	/-

Wind reactions based on MWFRS
G Brg Wid = 5.5 Min Req = 1.5 (Support)
E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Bearings G & E are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - C	99	-1198

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
G - F	1195	-107

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - G	655	-22	F - C	1198	-100
G - A	51	-824	C - E	63	-651
G - B	94	-1265			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W5 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11965.47" if used)

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

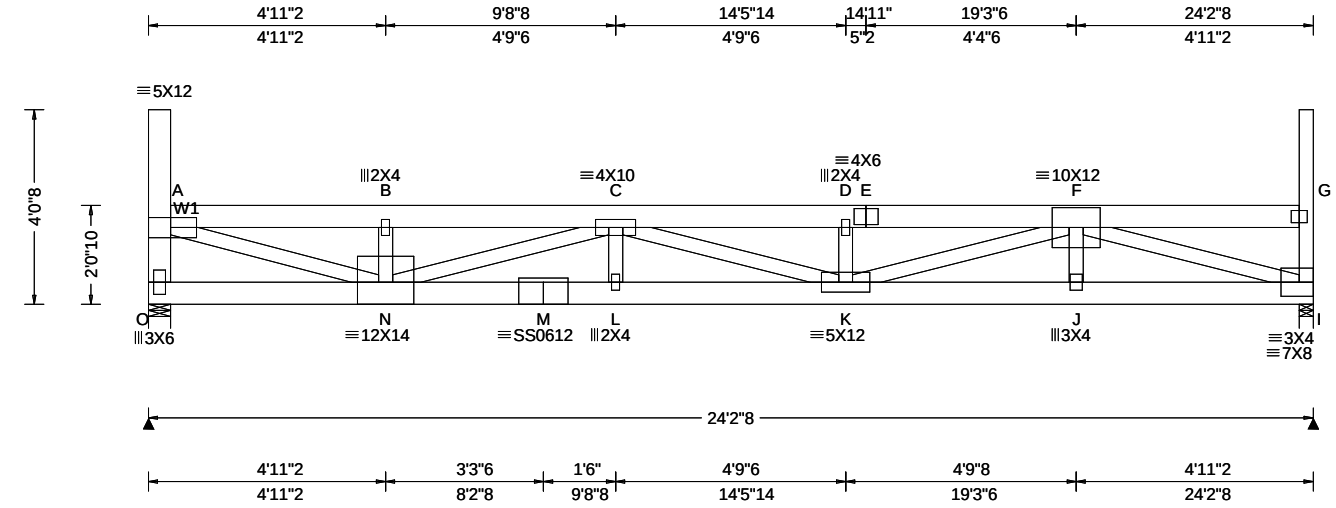
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37938 FLAT FROM:	Ply: 2 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T16A	Cust: R 9316 JRef:1XfQ93160003 T6 DrwNo: 142.22.1751.58483 / FK 05/22/2022

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.264	D	999	360
VERT(CL): 0.490	D	592	240
HORZ(LL): 0.040	I	-	-
HORZ(TL): 0.075	I	-	-

Creep Factor: 2.0
Max TC CSI: 0.232
Max BC CSI: 0.653
Max Web CSI: 0.907

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	2486	/-	/-	/-	/388	/-
I	2496	/-	/-	/-	/403	/-

Wind reactions based on MWFRS
O Brg Wid = 5.5 Min Req = 1.9 (Truss)
I Brg Wid = 3.5 Min Req = 2.0 (Truss)
Bearings O & I are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	517	- 3208	D - E	782	- 4709
B - C	516	- 3200	E - F	782	- 4709
C - D	782	- 4709			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	4702	- 769	K - J	3198	- 532
M - L	4702	- 769	J - I	3198	- 532
L - K	4702	- 769			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - A	173	- 1110	K - F	1592	- 264
A - N	3172	- 513	F - I	552	- 3317
N - C	267	- 1583			

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 23.92
BC: From 60 plf at 0.00 to 60 plf at 24.21
BC: 170 lb Conc. Load at 2.06, 4.06, 6.06, 8.06 10.06,18.06
BC: 173 lb Conc. Load at 12.06,14.06,16.06,20.06 22.06

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.99	34.38	4.14
23.92	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

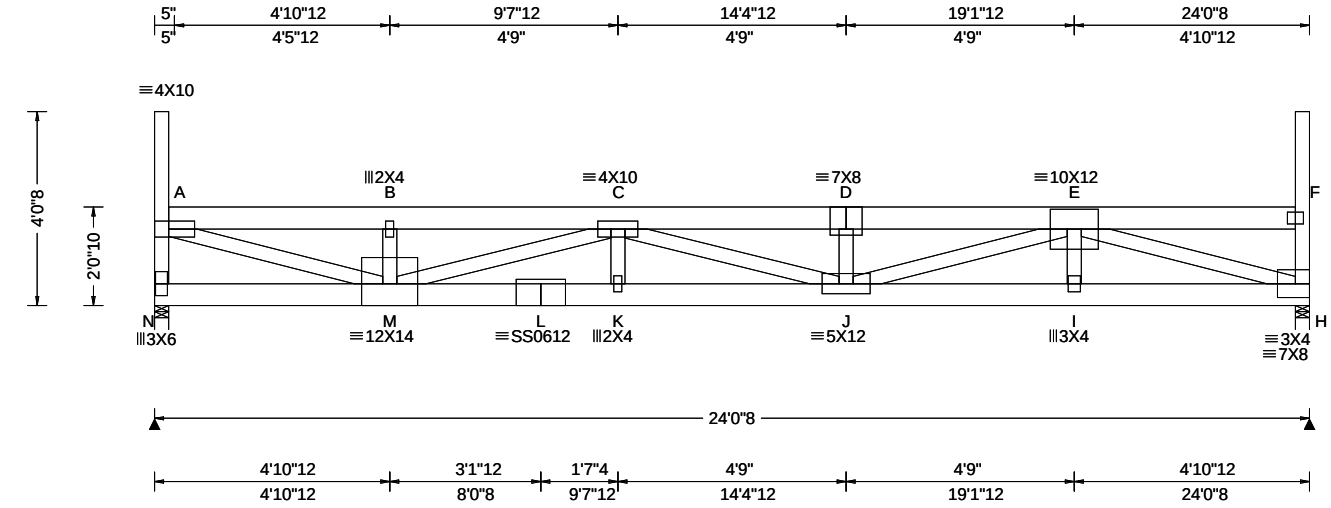
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37940 FLAT FROM:	Ply: 2 Qty: 2	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T32A	Cust: R 9316 JRef:1XfQ93160003 T30 DrwNo: 142.22.1752.01647 / FK 05/22/2022	

2 Complete Trusses Required



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.258 D	999	360
VERT(CL):	0.479 D	601	240
HORZ(LL):	0.039 H	-	-
HORZ(TL):	0.073 H	-	-

Creep Factor: 2.0
Max TC CSI: 0.228
Max BC CSI: 0.645
Max Web CSI: 0.892

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	2487	/-	/-	/-	/389	/-
H	2484	/-	/-	/-	/402	/-

Wind reactions based on MWFRS
N Brg Wid = 3.5 Min Req = 2.0 (Truss)
H Brg Wid = 3.5 Min Req = 1.9 (Truss)
Bearings N & H are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	513	- 3173	C - D	776	- 4649
B - C	512	- 3165	D - E	776	- 4649

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	4642	- 762	J - I	3158	- 526
L - K	4642	- 762	I - H	3158	- 526
K - J	4642	- 762			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - A	174	- 1114	J - E	1573	- 263
A - M	3196	- 518	E - H	547	- 3278
M - C	264	- 1558			

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 23.75
BC: From 60 plf at 0.00 to 60 plf at 24.04
BC: 170 lb Conc. Load at 1.98, 3.98, 5.98, 7.98 9.98,19.98
BC: 173 lb Conc. Load at 11.98,13.98,15.98,17.93 21.98

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.99	34.38	4.14
23.75	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

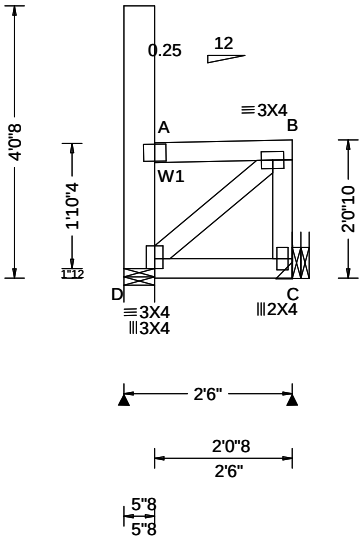
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37819 MONO FROM:	Ply: 1 Qty: 31	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** J02C	Cust: R 9316 JRef:1XfQ93160003 T37 DrwNo: 142.22.1752.07273 / FK 05/22/2022



Loading Criteria (psf)
TCLL: 20.00
TCDL: 15.00
BCLL: 15.00
BCDL: 15.00
Des Ld: 65.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.70 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.000	B	999	360
VERT(CL): 0.000	B	999	240
HORZ(LL): 0.001	A	-	-
HORZ(TL): 0.001	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.102
Max BC CSI: 0.079
Max Web CSI: 0.106

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D	122	/-	/-	/98	/76	/62
C	170	/-	/-	/145	/56	/-

Wind reactions based on MWFRS
D Brg Wid = 5.5 Min Req = 1.5 (Support)
C Brg Wid = - Min Req = -
Bearing D is a rigid surface.
Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

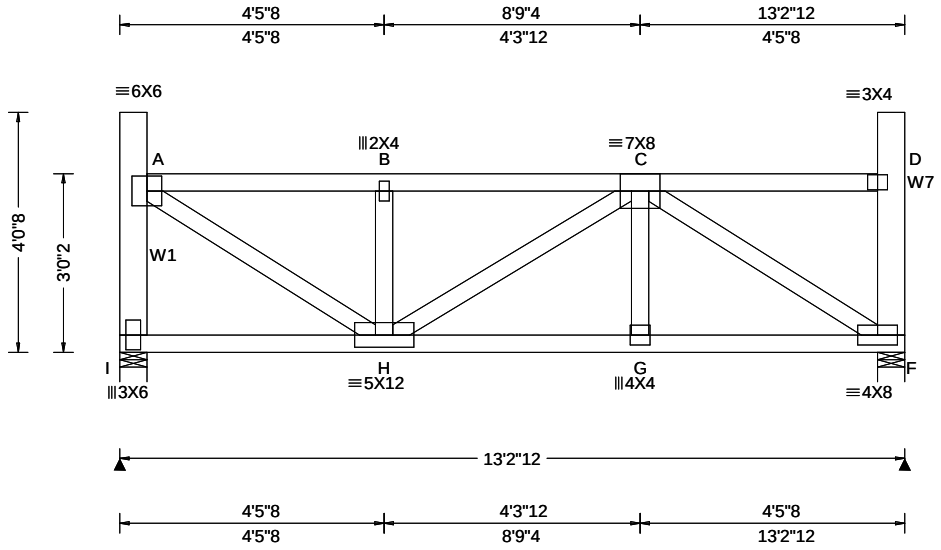
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37976 FLAT FROM:	Ply: 1 Qty: 1	**Job Number:** JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr **Truss Label:** T09	Cust: R 9316 JRef:1XfQ93160003 T29 DrwNo: 142.22.1752.15687 / FK 05/22/2022



Loading Criteria (psf)

TCLL:	20.00
TCDL:	15.00
BCLL:	15.00
BCDL:	15.00
Des Ld:	65.00
NCBCLL:	0.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 22.68 ft
TCDL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.038 B	999	360
VERT(CL):	0.071 B	999	240
HORZ(LL):	0.012 A	-	-
HORZ(TL):	0.021 A	-	-

Creep Factor: 2.0
Max TC CSI: 0.309
Max BC CSI: 0.554
Max Web CSI: 0.831

VIEW Ver: 21.02.00.1005.17

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	1433	/-	/-	/-	/187	/-
F	1367	/-	/-	/-	/169	/-

Wind reactions based on MWFRS
I Brg Wid = 5.5 Min Req = 1.8 (Truss)
F Brg Wid = 5.5 Min Req = 1.7 (Truss)
Bearings I & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	228	- 1749	B - C	228	- 1744

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
H - G	1741	- 226	G - F	1741	- 226

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - A	143	- 1148	C - G	709	- 111
A - H	1899	- 247	C - F	258	- 1984

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads

------(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 60 plf at 0.00 to 60 plf at 13.23
BC: 188 lb Conc. Load at 1.17, 3.17, 5.17, 7.17
9.17
BC: 204 lb Conc. Load at 11.17

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

Gable Stud Reinforcement Detail

ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace **	
				Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" o.c.	SPF HF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"
16" o.c.	SPF HF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir: #1 / #2 Standard; #3 Stud

Hem-Fir: #2 Stud; #3 Standard

Douglas Fir-Larch: #3; Stud; Standard

Southern Pine***: #3; Stud; Standard

Group B:

Hem-Fir: #1 & Btr; #1

Douglas Fir-Larch: #1; #2

Southern Pine***: #1; #2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

Attach "L" braces with 10d (0.128"x3.0" min) nails.

* For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

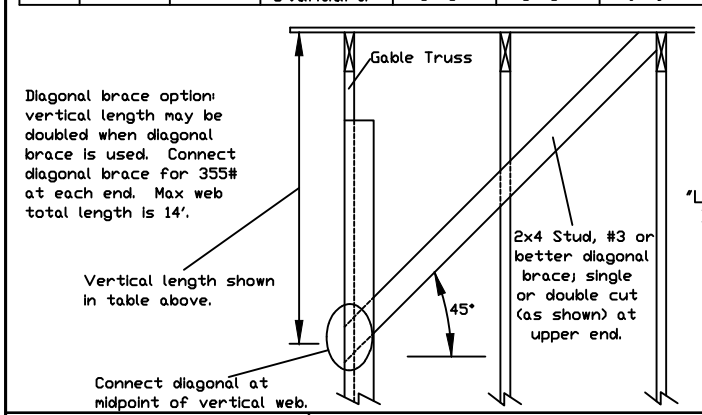
"L" bracing must be a minimum of 80% of web member length.

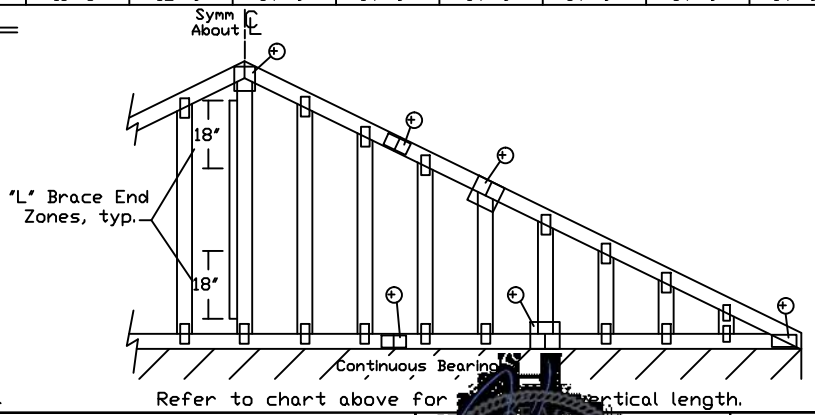
Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.





****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

05/22/2022

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-16-GAB11530
DATE 01/26/2018
DRWG A11530ENC160118

Building 14

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C
Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail for lumber, plates, and other information not shown on this detail.

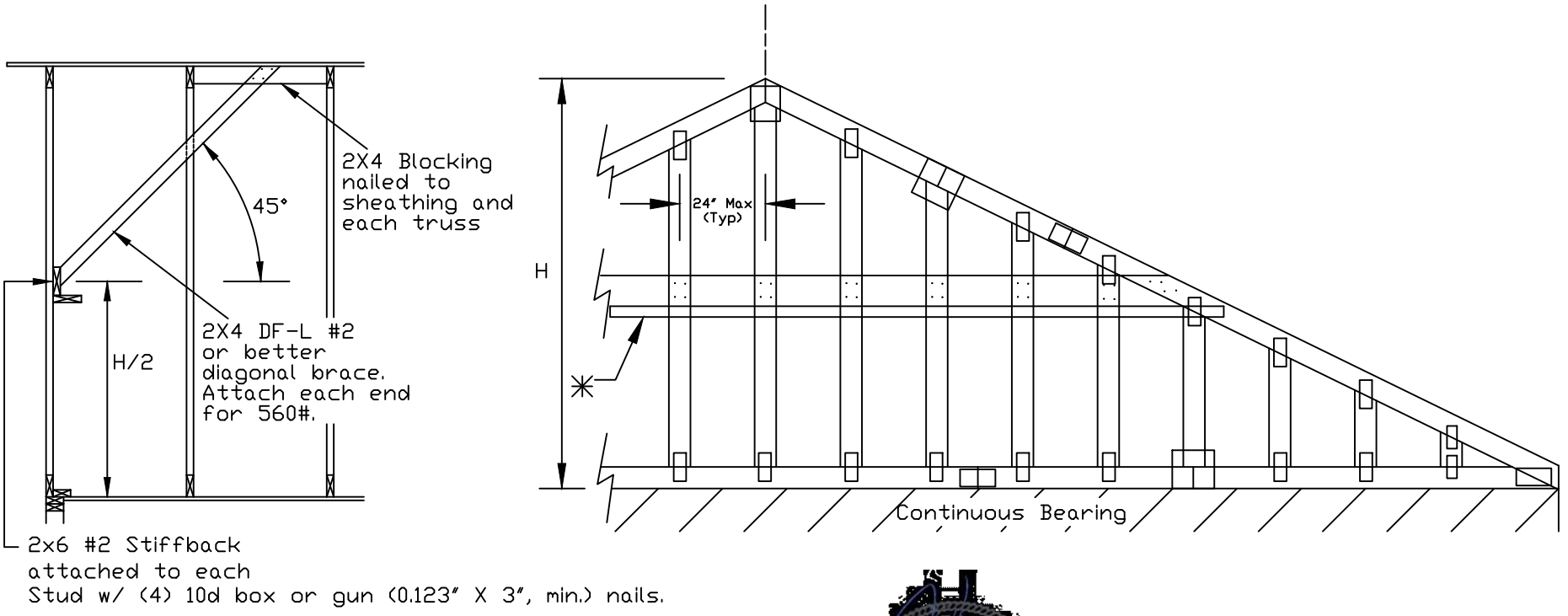
Nails: 10d box or gun (0.128"x3",min) nails.

H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback to roof diaphragm every 6'0" (see detail below or refer to DRWG A12030ENC160118).

H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace to roof diaphragm every 4'0" (see detail below or refer to DRWG A12030ENC160118).

✳ Optional 2x L-reinforcement attached to stiffback with 10d box or gun (0.128" x 3", min.) nails @ 6" o.c.



ALPINE
AN ITW COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

22/2022

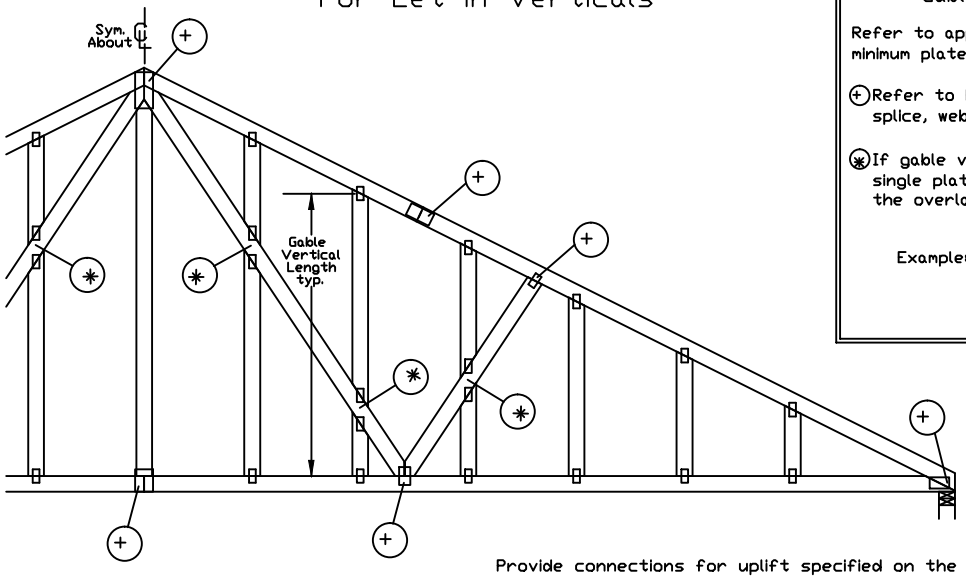
MAX. TOT. LD. 60 PSF

MAX. SPACING

REF	GE WHALER
DATE	01/02/2018
DRWG	GABRST160118

Building 14

Gable Detail
For Let-in Verticals



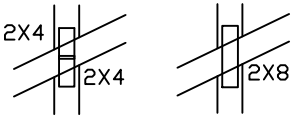
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

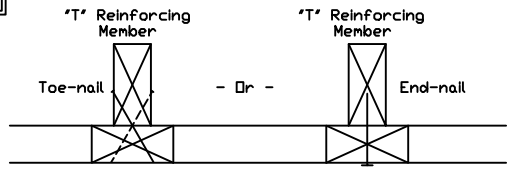
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊛ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



"T" Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:
10d Common (0.148"x 3.",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

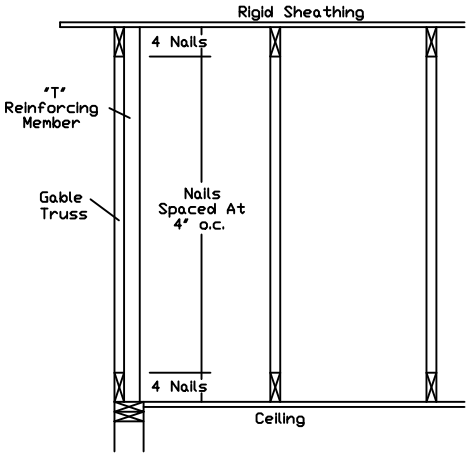
Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24"o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

05/22/2022

MAX. TOT. LD. 60 PSF
DUR. FAC. ANY
MAX. SPACING 24.0"

REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118

Building 14

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforecement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

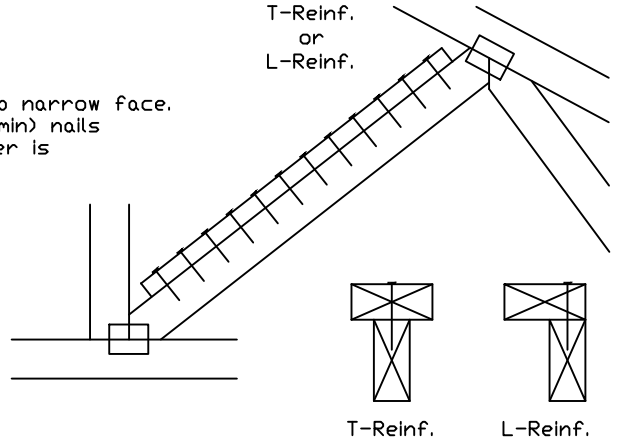
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Alternative Reinforecement Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

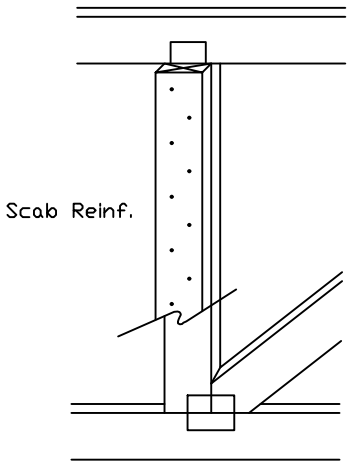
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



ALPINE AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL		PSF
TC DL		PSF
BC DL		PSF
BC LL		PSF
TOT. LD.		PSF
DUR. FAC.		
SPACING		

REF	CLR Subst.
DATE	01/02/19
DRWG	BRCLBSUB0119

22/2022

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

05/22/2022

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

Building 14

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 14 Truss	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Group 14 Floor Layout

HANGER CHART			
Symbol	Name	Qty	Manufacturer
	= THA422	130	Simpson
	= THA422-2	6	Simpson

Total Plan Area with OHs = 6372 sq.ft

Total Truss Quantity = 270.

SHOP DRAWING REVIEW

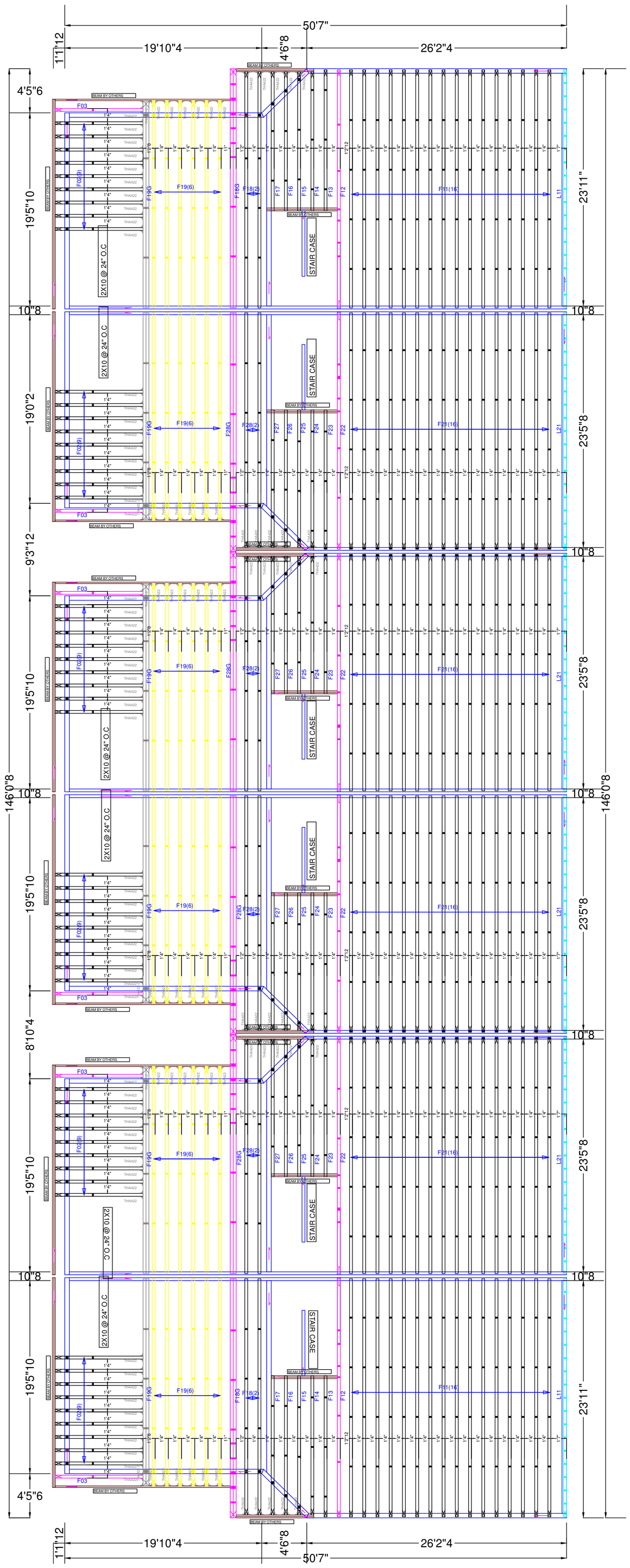
REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED, REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 BY: CB



DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

mill Creek
3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-6108

Job Name: McCambridge Brothers Construction

Designer: Juan R Quiroz

Reference #: JB-220699

Date: 3/16/2022

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address:
2100 NW Lowenstein Dr
Lee's Summit
MO

Building 14

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 14 Truss	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Building 14

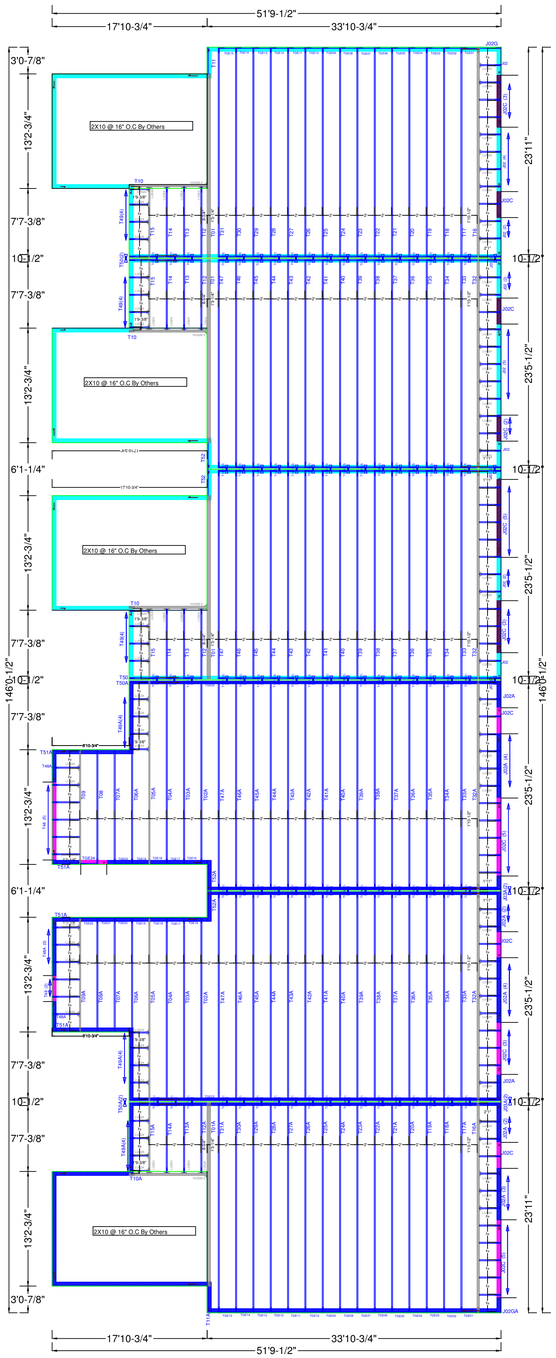
Group 14 Roof Layout

HANGER CHART			
Symbol	Name	Qty	Manufacturer
	= HUS26-2	4	
	= LUS24	118	Simpson

BEARING WALL & BEAM HEIGHTS
- 19'
- 19'1-3/4"
- 19'8"
- 19'9-3/4"

Total Plan Area with OHs = 5873 sq.ft

Total Truss Quantity = 498.



SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED, REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/30/2022 BY: CB

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

Job Name: McCambridge Brothers Construction

Designer: Juan R Quiroz

Date: 5/21/2022

Reference #: JB-220700

mill Creek
3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-9108

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

ROOF TRUSS LAYOUT (NTS)

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses